3rd party tools useful for service projects

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Supporting Tools used for Services Projects:
(No particular order)

CA Tools - SM PolicyReader - High Value/Used on many projects
Use with XPSExport sm-xb-{hostname}-{date-timestamp}.xml -xv -npass -vT
Select objects to compare; export to HTML; copy to XLS; manipulate to columns to compare attribute values
http://tinyurl.com/SMPolicyReader
http://youtu.be/71lEVt-GfZw

CA Tools - SM PolicyTrace - Med Value / Used on very few projects
Useful to parse many SM policytrace logs that stretch over a week worth of collection & used to identify a pattern
http://www.youtube.com/watch?v=LEYhw5g-Yog
http://tiny.cc/SMTraceAnalysisTool

Fiddler (Free) - High Value/Used on every project   - High Value/Used on some projects
Used to monitor HTTP & HTTPS traffic of SM Authentication/IM pages from a user's workstation.
Must be installed on local workstation.   Useful for checking domain; cookies; headers
http://fiddler2.com/

ChainSaw (Free) - High Value/Use on every project
Log4J analysis tool for WAS logs (IM)
Very useful when debugging Policy Xpress when PX logger (ims.policyxpress) is set to DEBUG or ALL.
http://logging.apache.org/chainsaw/download.html

Agent Ransack (Free) - Medium Value/Use daily
Forget Windows Search. Forget Windows Indexing.
Use this tool to find your missing notes buried in folders FAST. Free "lite" version of FileLocator Pro
Pro version can also search MS Outlook PST files for that "lost" email
http://www.mythicsoft.com/page.aspx?type=agentransack&page=home

BeyondCompare (30 day trial; $30) - High Value/Use on every project
Used to manage migration efforts between environments for configuration files, custom jar files, and binaries.   Interface provides folder and data comparisons to text and data comparisons.
A way to double-check that configurations match between WAS servers.
http://www.scootersoftware.com/download.php

Emacs (free) -   Low Value/Used on few projects
Useful for managing CA GovernanceMinder documentation
http://www.gnu.org/software/emacs/

Kettle (free) - Medium Value/Used on few project
Already a part of the tool set for CA GovernanceMinder (RCM)
Becoming a fast favorite to manage and transform data for IM
Useful to manage input/ouput for scripts and to integrate scripts to each other.
http://kettle.pentaho.com/

DbVisualizer   (**free** if don't install with a database for its own configuration; use only file base configuration) - **Medium Value/Use on test IM&SM to validate migration processes**
Great tool to monitor database table.   Add the oracle thin client jar files (from oracle site) to monitor oracle db.
Useful for quick view to databases; as an alternative to MS SQL Manager/Oracle Admin UI.
http://www.dbvis.com/

SOAP UI Tool (free) - Medium Value/Use on few projects for transactional feeds or webservice validtion
Want to test CA IM TEWS or other SOAP request.
Low learning curve.
Point to the IM dynamic generated WSDL URL; and you will have access to any IM Task to create user/group/org or update
http://www.soapui.org/

BugZilla Appliance (free opensource) - Low Value/Used on very few project
http://www.turnkeylinux.org/bugzilla
Used for projects where client do NOT have a proper bug tracking solution.
Keep the use of spreadsheet to a minimum for tracking issues.
Vmware based. Easy to deploy and train users. Leave with client.

MS Sysinternal Suite (free) - Medium Value/Used on most projects
MS acquired Sysinternals and Mark Russinovich
http://technet.microsoft.com/en-us/sysinternals/default
Used to monitor real-time updates to win registry/file system/processes running.   Useful for debugging CA install issues.
http://technet.microsoft.com/en-us/sysinternals/bb896645
Used to identify all AUTO-START locations on workstation/server. Useful for identify rogue programs, e.g. keylogger/viruses/rats
http://live.sysinternals.com/autoruns.exe
A better Task manager to identify processes running & network ports. Useful for identifying network ports used by processes. Able to kill hung processes.
http://live.sysinternals.com/procexp.exe
A set of command line tools for running remote commands within a domain. Useful for collecting information on remote servers or executing remote commands.
http://technet.microsoft.com/en-us/sysinternals/bb896649
++ Many more++

MS Robocopy (free) - Low Value/Used on few projects where data need to be sync across servers.
Is even BETTER than before.   Provides for "restart" and "multi-threading" functionality now.
Need to copy data from a network share of 100 GB, over an unstable cell connection? use this tool!

Used to copy data between solutions servers; e.g. JAR files or other that need to be in sync.
Example: **Robocopy** folderA folderB /e /mt:4 /z /r:1 /w:1 /log+:filename

FreeMind: (free) - High Value/Used on every project to capture notes/configurations/connections
Used to capture categories of thoughts when building SRS/SDS
Used to flow broad concepts to detailed processes
http://freemind.sourceforge.net/wiki/index.php/Main_Page

Java GUI Decompiler (free) - Medium Value/Used on many projects
Useful to debug client code or other Java code when the original source code files are not available.
Follow the business logic and see the actually strings used for endpoints; useful for PX rules to manage endpoints.
No installer; runs from executable
http://java.decompiler.free.fr/

TextPad: (Un-license for use; may be licensed) - High Value/Used on every project
Text Editor AND Search Tool across large log files (copy WAS logs/IMPS logs/log4j logs/ccs logs/directory logs to one folder and use TextPad to search keyword across all)
Limit: 32 bit; memory may max at 2GB during some searches.
http://www.textpad.com/

NotePad++:   (free opensource) - High Value/used on every project
Use to manage XML file.   Use for viewing IM Environment export and PX rules extracts.
http://notepad-plus-plus.org/

SoftTerra LDAPBrowser 4.5:   (free and READ-ONLY) - Medium Value/Used on every project
SoftTerra LDAPAdmin X (Pay) - Medium Value/Used on every project
Use for searches and generating CSV reports on the Corporate User Store (Port XXXXX);
Used for searches and generating CSV reports on the Provisioning User Store (Port 20389);
Used for searches and generating CSV reports on Explored Endpoints on the Provisioning User Store (Port 20389);
Used for searches and generating CSV reports on the Provisioning Directory (Port 20391/20394);
Used for searches and generating CSV reports on CA LDAP Server for Zos on the Mainframe (TSS/RACF/ACF2);
Used for searches and generating reports on LDAP/JNDI endpoints;
Used for searches and generating reports on ADS (Port 389).
Provide to client as training aid and to ensure NO damage occurs to ANY directory during training.
Provide to client as aid for auditing.
Provide to client to support role analysis of users access on endpoints.
http://www.ldapbrowser.com/download.htm

VisionAPP: (0$ license for XML base/database version of license cost) - Medium Value/Used on most projects
RDP tool useful for managing many different remote connection on client sites.
Allows for rapid connection and export of settings to other team members.
XML password based security may be leveraged.   Setting file may be shared.
http://download.cnet.com/Visionapp-Remote-Desktop/3000-7240_4-10914040.html
http://www.visionapp.com/germany/solutions/visionapp-remote-desktop.html

BareTail: (free ver/ full version has license cost) - Low Value/Used on many projects
Use for monitoring WAS/IMPS/Directory logs and highlight keywords while log file is active.   Similar to UNIX tail.
Very useful when debugging Policy Xpress when PX logger is set to DEBUG or ALL.
Can open large 2GB log files or larger with no issues.
Use when unable to use chainsaw log4j tool.
http://www.baremetalsoft.com/baretail/download.php?p=m

Expresso Regular Expression Checker (free) - Low Value / Used on few projects
Use to create a useful regular express for a Password policy .
http://www.ultrapico.com/Expresso.htm
Example: Regular expression that meets ADS password policy: http://technet.microsoft.com/en-us/library/cc786468(WS.10).aspx
(.*[a-z]+ [-!"#$%&'()*+,./:;<=>?@_`{|}~]+[0-9]+.*|.*[-!"#$%&'()*+,./:;<=>?@_`{|}~]+[a-z]+[0-9]+.*|.*[0-9]+[-!"#$%&'()*+,./:;<=>?@_`{|}~]+[a-z]+.*|.*[-!"#$%&'()*+,./:;<=>?@_`{|}~]+[0-9]+[a-z]+.*|.*[0-9]+[a-z]+[-!"#$%&'()*+,./:;<=>?@_`{|}~]+.*|.*[a-z]+[0-9]+[-!"#$%&'()*+,./:;<=>?@_`{|}~]+.*)|(.*[a-z]+[A-Z]+[0-9]+.*|.*[A-Z]+[0-9]+[a-z]+.*|.*[A-Z]+[a-z]+[0-9]+.*|.*[a-z]+[0-9]+[A-Z]+.*|.*[0-9]+[a-z]+[A-Z]+.*|.*[0-9]+[A-Z]+[a-z]+.*)|(.*[a-z]+[-!"#$%&'()*+,./:;<=>?@_`{|}~]+.*|.*[A-Z]+[a-z]+[-!"#$%&'()*+,./:;<=>?@_`{|}~]+.*|.*[A-Z]+[-!"#$%&'()*+,./:;<=>?@_`{|}~]+[a-z]+.*)|(.*[0-9]+[-!"#$%&'()*+,./:;<=>?@_`{|}~]+[A-Z]+.*|.*[-!"#$%&'()*+,./:;<=>?@_`{|}~]+[0-9]+[A-Z]+.*|.*[-!"#$%&'()*+,./:;<=>?@_`{|}~]+[A-Z]+[0-9]+.*|.*[A-Z]+[0-9]+[-!"#$%&'()*+,./:;<=>?@_`{|}~]+.*|.*[0-9]+[A-Z]+[-!"#$%&'()*+,./:;<=>?@_`{|}~]+.*)

7-zip (free – open source) - High Value/Used on every project
Used to compress log files for CA Support view
Better compression than WinZip and no cost.
http://www.7-zip.org/

FileZilla   (free – open source) - High Value/Used on every project
Client is used to upload download files from CA Support site
Server is useful to maintain a repository on alternative site with a secure login and secure data connection.
http://filezilla-project.org/

Alcohol 52% FE (free edition/ not trial) - Low Value/Used on very few projects
Useful to mount ISO images as a CD/DVD drive for installs on laptop.
Not needed for vmware.
http://download.cnet.com/Alcohol-52-FE/3000-2242_4-10198084.html

TrueCrypt (free-open source) - High Value/Used on every project

Used to secure client data/files on USB drives and/or hard drives
Lower business risk if USB or laptop is lost/stolen
Create a mount point that is displayed as a drive letter.
http://www.truecrypt.org/

VMWARE workstation/server/player: (workstation – order through SRM/server and player - $0 registration) - High Value/Used on every project
Used for building representative use-case solution
Training tool for the self-taught
http://www.vmware.com/

MSDN License: (Must Request for pre-paid subscriptions) - High Value/Used on every project
Used for building representative use-case solution
Training tools / Full OS ISO / MS Exchange / MS Sharepoint / MS OCS / MS SQL
http://msdn.microsoft.com/en-us/

Firefox / Chrome: (free) - High Value/Used on every project
Additional browsers to support testing
Additional browser allow multiple connections to IM User Console; allows for quicker testing by using one as a end user; one connection as an administrator.
Useful for developer console to monitor connections, similar to F12 in IE

IE Tester (free) - Low Value/Used on few projects
Why install many different version of IE on one workstation.
Use this tool to test IE6,7,8,9 against CA or other solutions
Similar functionality in IE9/10 with F12 key.
http://www.my-debugbar.com/wiki/IETester/HomePage

Adobe Air: (free) - Medium Value/Used on every project
Required to leverage CA IM ConfigXpress tool
ConfigXpress is an excellent tool to migration from one environment to another
ConfigXpress is an excellent tool to determine development deltas from a comparison of one snapshot to another
http://get.adobe.com/air/

Jgoodies Java Disk Checker   (free) - Low Value/Used on few projects
Used to find files for clean-up of hard drive.   Graphical view to identify which folders have the largest impact on disk usage
Useful for cleaning up older disk of logs and previous install packages.
http://www.jgoodies.com/freeware/jdiskreport/

Wiki Appliance - Low Value/Used on very few projects
http://www.turnkeylinux.org/mediawiki
http://www.turnkeylinux.org/twiki
Useful for capturing notes from a project and leaving for client; if the client does not leverage Sharepoint.
Vmware appliances.

MS Orca Edit MSI Files - Low value/Used on very few projects
Useful debugging MSI installers
http://support.microsoft.com/kb/255905

UNIX Utilities for Windows OS - Low value/Used on very few projects
Useful when testing grep/sed/awk commands
http://unxutils.sourceforge.net/

Putty - High Value/Used on many projects
http://www.chiark.greenend.org.uk/~sgtatham/putty/
Useful to perform SSH connections to Linux/UNIX hosts/servers
Useful for debugging remote service connections using the RAW connection type

Wireshark - Medium Value/Used on many projects for debugging
Useful for debugging network traffic between solution components
Leverage the LDAP filter to view data from IM components.
http://www.wireshark.org/

ActiveTCL/ActivePerl (free download/community license) - Low value/Used on very few projects
Useful to expand the eSSO solution or to create scripts to manage remote login connections.
http://www.activestate.com/activetcl/downloads
http://www.activestate.com/activeperl/downloads

Windiff - Low Value/Used on very few projects
http://support.microsoft.com/kb/159214
Quick tool to compare two ascii files.
Otherwise, use BeyondCompare, for larger set of files.

Hirens BootCD (free opensource/freeware} - Low Value/Used on very few projects
Useful when laptop hard drive crashes and need to get a file off before sending in laptop for repairs.
http://www.hirensbootcd.org/download/

MS MDOP(DART)   (contains Wininternals ERD tool for boot cd) {30 day trial or pull down from MSDN} - Low Value/Used on very few projects
http://www.microsoft.com/windows/enterprise/products/mdop/dart.aspx
Useful when laptop hard drive crashes and need to get a file off before sending in laptop for repairs.

Xming for Windows (free opensource) - Low Value/Used on a few projects

Allows the use of graphical programs to be run remotely from a SUN/Linux box on a Windows workstation
1) Login with Putty with X11 Forwarding enabled as admin (or your account)
2) Su – admin (or dsa or other account as needed that has access to run the program; ensure dash is used to have the correct user profile loaded)
3) Export DISPLAY=IP_of_Workstation:0.0   (where Xming is deployed; aka your workstation IP; ifconfig –a)
4) Start XMing with the –ac switch or disable access controls with Xlaunch ("C:\Program Files (x86)\Xming\Xming.exe" :0 -clipboard -multiwindow -ac) {Shortcut on desktop}
5) Launch the any UNIX/Linux application as if you were on that system via putty, i.e. tomcat   {any font issues warning message may be ignored}
http://sourceforge.net/projects/xming/

Toad to manage Oracle (free) - Low Value/Used on very few projects
http://www.toadworld.com/Freeware/ToadforOracleFreeware/tabid/558/Default.aspx

Jolly Giant TN3270 emulator (trial 30 day) - Low Value/Used on very few projects
http://www.jollygiant.com/qws3270-plus/
Useful to connect to mainframes

Wget (free opensource) - Low Value / Used on very few projects
http://www.gnu.org/software/wget/
http://sourceforge.net/projects/gnuwin32/files/wget/1.11.4-1/wget-1.11.4-1-setup.exe/download
http://ftp.gnu.org/gnu/wget/
Useful to auto extract IME export
Useful to mirror websites

Free space offering from Amazon Web Services. - Low value / Used on very few projects
Amazon is offering free Micro instances (678 Mb of RAM) for a year with a new account sign-up.
That is a perfect size for most if not all of the Turnkey appliances.
http://aws.amazon.com/free/

Eclipse Java IDE - Medium Value / Used on few projects
http://www.eclipse.org/downloads/packages/eclipse-ide-java-developers/heliossr1
The Eclipse Plug-In for SQL is http://www.sqlexplorer.org/

HTTP Watch - Medium Value / Used on few projects
http://www.httpwatch.com/
HttpWatch is an integrated HTTP sniffer for IE and Firefox that provides new insights into how your website loads and performs.
Fiddler is a better replacement

Apache Directory Server LDAP - Medium value / Used on a few projects
http://directory.apache.org/studio/
Use if clients are used to this tool

Ignite Free (Database monitor tool) - Medium Value / Used on test systems to monitor performance
Requires SQL Express or Oracle XE
Will show SQL commands that have wait responses.
Useful for tuning solutions databases.
http://www.ignitefree.com/

Oracle XE (10g or 11g) - High Value / Used with test systems
Very useful for creating and validating solutions
http://www.oracle.com/technetwork/database/express-edition/overview/index.html
Independent Software Vendors (ISVs) and hardware vendors who want a starter database to distribute free of charge
Oracle Database XE can be installed on any size host machine with any number of CPUs (one database per machine), but XE will store up to 11GB of user data, use up to 1GB of memory, and use one CPU on the host machine.
Note: SID = XE
Limits: 1 CPU, 1 GB RAM, 11 GB Disk space

SQL Express (2005/2008) - High value / Used with test systems
Useful for creating / validating solution; but may NOT be given away unless ISV joins
Microsoft Independent Software Vendor (ISV) Royalty Licensing Program via MS Partner Network.
http://www.microsoft.com/licensing/licensing-options-isv-program.aspx
http://www.microsoft.com/sqlserver/en/us/editions/express.aspx

AWS Amazon Free Cloud Service - Low Value / Used on very few projects
http://aws.amazon.com/free/
Amazon Web Services to host a defect tracking site for an IdM customer.
Amazon is offering free Micro instances (678 Mb of RAM) for a year with a new account sign-up. That is a perfect size for most if not all of the Turnkey appliances.

** MS Windows Server or ADS Commands - Medium Value/Used on few projects**
Dsquery user –samid %SAMID% / dsmod user –samid %SAMID%
Netdom query dc / netdom query pdc
Csvde /ldifde
Powershell
Useful commands to manage access to AD or pull information for role analysis.

Useful Backup Scripts

MS Windows Commands to backup Active Directory user store (non-privacy info) of useful info. - High Value/Used on many projects
set HOSTNAME= Active Directory DC hostname here
set ADSDOMAIN="dc=corp,dc=company,dc=com"

:: SET DATESTAMP / TIMESTAMP
:: *** Set the date string for file naming and archive ***
for /f "tokens=1,2" %%u in ('date /t') do set d=%%v
set t=%time:~0,2%%time:~3,2%%time:~6,2%%time:~9,2%
if "%t:~0,1%"==" " set t=0%t:~1%
set datetimestamp=%d:~6,4%%d:~0,2%%d:~3,2%_%t%
@echo %datetimestamp%

```
@echo.
@echo %hostname%
@echo.

:: CSV Extract
 csvde -f %datetimestamp%_ADS_Export_Users.csv -s %HOSTNAME% -d %ADSDOMAIN% -p subtree -r "(&(objectCategory=person)(objectClass=User)(displayName=*))"
 @echo Full CSV Extract of AD Users Complete
 :: pause

:: LDIF Extract
 ldifde -f  %datetimestamp%_ADS_Export_Users.ldif -s %HOSTNAME% -d %ADSDOMAIN% -p subtree -r "(&(objectCategory=person)(objectClass=User)(displayName=*))"
 @echo Full LDIF Extract of AD Users Complete

:: pause
:: Remove files older than 14 days; to prevent drive from filling up with files.
forfiles /s /m  *.ldif  /d -14  /c "cmd /c del @file"
forfiles /s /m  *.csv   /d -14  /c "cmd /c del @file"
```

MS Windows Server Dos/Win Batch Date-Time Stamp
```
:: SET DATESTAMP / TIMESTAMP
:: *** Set the date string for file naming and archive ***
for /f "tokens=1,2" %%u in ('date /t') do set d=%%v
set t=%time:~0,2%%time:~3,2%%time:~6,2%%time:~9,2%
if "%t:~0,1%"==" " set t=0%t:~1%
set datetimestamp=%d:~6,4%%d:~0,2%%d:~3,2%_%t%
@echo %datetimestamp%
@echo.
@echo %hostname%
@echo.
```

MS Windows Scheduled Job for Cleanup of Orphan Accounts from IMPS [default user] / Cleanup of ADS from [default user]
May be extended to other endpoint/namespaces

```
@echo on

::FOR /F "TOKENS=2-4 DELIMS=/ " %%F IN ('DATE /T') DO (SET LOGDATE=%%H%%F%%G)

:: SET DATESTAMP / TIMESTAMP
:: *** Set the date string for file naming and archive ***
for /f "tokens=1,2" %%u in ('date /t') do set d=%%v
set t=%time:~0,2%%time:~3,2%%time:~6,2%%time:~9,2%
if "%t:~0,1%"==" " set t=0%t:~1%
set datetimestamp=%d:~6,4%%d:~0,2%%d:~3,2%_%t%
@echo %datetimestamp%
@echo.
@echo %hostname%
@echo.

setlocal

:main
::set ETAUSER=%1
::set ETAPASS=%2
::set NAMESPACE=%3
set ETAUSER=idmadmin
set ETAPASS=Password01
set NAMESPACE=ADS
set DOMAIN=im

set SUBORDINATE=eT%NAMESPACE%Account

etautil -d  %DOMAIN% -u %ETAUSER% -p %ETAPASS% select 'eTSubordinateClass=%
SUBORDINATE%,eTSuperiorClass=eTGlobalUser,eTInclusionContainerName=Inclusions,eTNamespaceName=CommonObjects' eTInclusionObject eTSuperiorClassEntry=eTGlobalUserName=[* list
eTInclusionID > %NAMESPACE%.tmp
findstr /C:"eTInclusionID = " %NAMESPACE%.tmp > %NAMESPACE%_Inclusions.tmp
del %NAMESPACE%.tmp

for /F "tokens=1,2,3 %%I IN (%NAMESPACE%_Inclusions.tmp) do (echo delete 'eTSubordinateClass=%
SUBORDINATE%,eTSuperiorClass=eTGlobalUser,eTInclusionContainerName=Inclusions,eTNamespaceName=CommonObjects' eTInclusionObject %%I %%J %%K; >> %NAMESPACE%_Inclusion_Deletion.util)
echo select 'eTGlobalUserContainerName=Global Users,eTNamespaceName=CommonObjects' eTGlobalUser globalusername=%ETAUSER% list globalusername >> %NAMESPACE%_Inclusion_Deletion.util
del %NAMESPACE%_Inclusions.tmp
etautil -d %DOMAIN% -u %ETAUSER% -p %ETAPASS% -f %NAMESPACE%_Inclusion_Deletion.util > Defaulted_%NAMESPACE%_Inclusion_Deletion_%datetimestamp%.log
del %NAMESPACE%_Inclusion_Deletion.util

:end
endlocal

::pause
```

Automate IMPD & IMCD Backup from zdb to ldif
This process assumes that dump dxgrid-db has been enabled to run on daily basis, to capture deltas, e.g. dump dxgrid-db period 16200 86400;

```
@echo on

:: *** Set the date string for file naming and archive ***
for /f "tokens=1,2" %%u in ('date /t') do set d=%%v
set t=%time:~0,2%%time:~3,2%%time:~6,2%%time:~9,2%
if "%t:~0,1%"==" " set t=0%t:~1%
set datestr=%d:~6,4%%d:~0,2%%d:~3,2%_%t%
echo %datestr%

:: View IMPD DSA names
dxserver status

:: Backup the three primary IMPD DSAs
dxdumpdb -z -f %datestr%_%COMPUTERNAME%-impd-main.ldif  %COMPUTERNAME%-impd-main
dxdumpdb -z -f %datestr%_%COMPUTERNAME%-impd-inc.ldif  %COMPUTERNAME%-impd-inc
dxdumpdb -z -f %datestr%_%COMPUTERNAME%-impd-co.ldif  %COMPUTERNAME%-impd-co

:: Export to LDIF the below notify DSA if needed for troubleshooting
dxdumpdb -z -f %datestr%_%COMPUTERNAME%-impd-notify.ldif  %COMPUTERNAME%-impd-notify

:: Export to LDIF the Corporate User Store DSA
dxdumpdb -z -f %datestr%_%COMPUTERNAME%-corp.ldif  %COMPUTERNAME%-corp

:: Remove files older than 14 days; to prevent drive from filling up with files.
forfiles /s /m  *.ldif  /d -14  /c "cmd /c del @file"
```