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1.		3
2.	Windows NT	3
3.		4
4.		4
5.		5
6.	-	5
7.		
		6
8.		10
9.		11

Windows .

2 Windows NT

, Windows NT :

1. 2.

, . :

• . , , , Windows

.

The system can not log you on now because the domain **DOMAIN_NAME** is not available

, ,

A domain controller for your domain could not be contacted. You have been logged on using cached account information. Changes to your profile since you last logged on may not be available.

```
3
                                                  50.
                                                                         0,
                                           Windows
                                                                  10
                           HKLM\Software\Microsoft\Windows NT\Current Version\Winlogon
                           CachedLogonsCount
                           REG_SZ
                           0 - 50
       Windows)
                          Windows
                           HKLM\SOFTWARE\Microsoft \Windows NT\CurrentVersion\Winlogon
                           ReportControllerMissing
                           REG_SZ
                           TRUE
                           HKLM\Software\Microsoft\WindowsNT\CurrentVersion\Winlogon
                           ReportDC
                           REG_DWORD
4
                                                                                  Windows
                                                                     Windows
                                                                                2000,
                                                           (..salted hash),
                     Microsoft,
```

(precompiled tables)

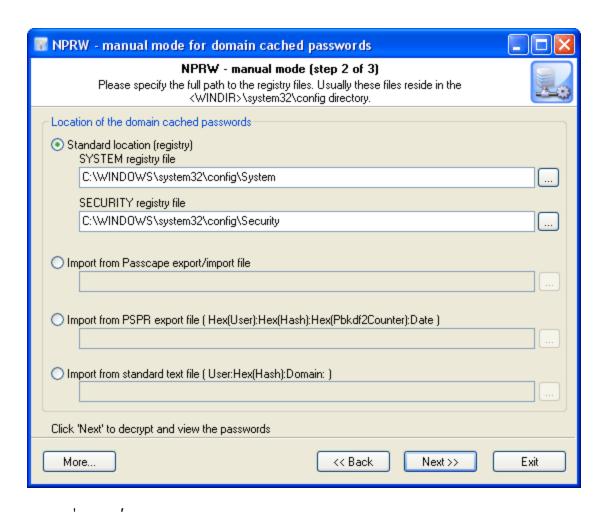
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```
5
       Network Password Recovery Wizard.
                                                                  Internet Explorer,
                                          DPAPI (
       Outlook, Windows Mail, WPA . .).
6
                                                                        Windows
                     HKEY_LOCAL_MACHINE\SECURITY\Cache.
              NL$
                           Pbkdf2 (
                                        Windows Vista
                                                               LSA
       NL$KM,
                                   64
                                                   SECURITY
              . NL$KM
                            SYSKEY.
```

```
    SYSKEY + LSA Master Key + NL$KM = DCP Master Key
    DCP Master Key + NL$x entry = Decrypted DCP entry

             Windows 2000-2003: hash = MD4 ( MD4(user password) + lowercase(user name) )
                     Windows Vista
          WPA-PSK:
        h = MD4 ( MD4(user password) + lowercase(user name) )
        hash = PBKDF2_SHA( h, iterations )
                                      iterations
                                                         10240.
                                                                                                 SHA
7
                                                                                  Network Password
        Recovery Wizard
        1.
        2.
        3.
        1.
        Domain Cached Passwords.
```





2.

🜃 NPRW - decrypted passwords Decrypted passwords Right click on the listbox to view context menu. Click on a column header to sort the list. Password User name Last access time Password hash Hash type NetShowServices 02-19-2008 10:15.. NT compatible 옥 Check password 🥻 Администратор 02-19-2008 10:16... NT compatible 🔍 Guess simple passwords IWAM_W2K 09-10-2007 09:35... NT compatible Copy to clipboard 🧾 View text report 🔨 View html report Wiew as excel report 🗻 Copy list to clipboard 🛃 Save list to file Context menu Change password Remove cached entry < 📤 Export Сору Save Report 🃤 Export encrypted << Back Next>> More... Exit

'Password' 'Hash type'.

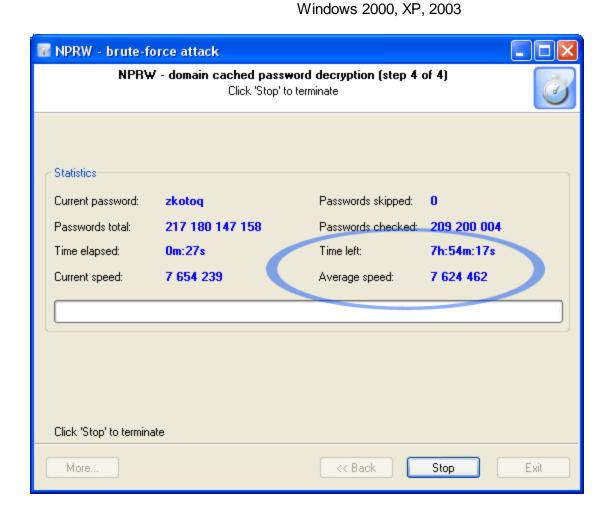
'Password',

'Hash type'

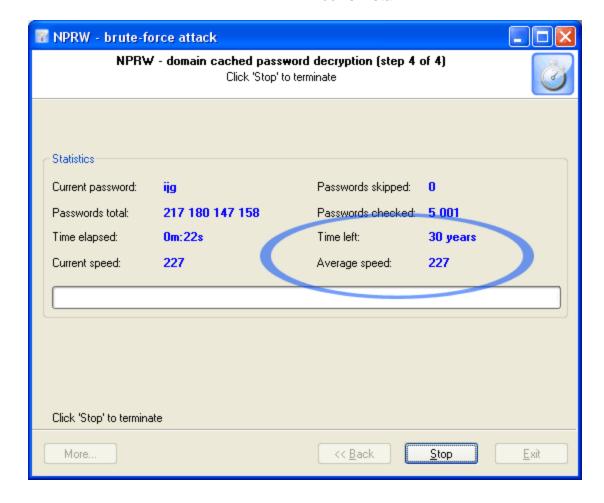
, 'Win2K compatible fast'
'Vista, slow' -

```
3.
                                                         'Decrypt password hash'.
                                                                                    Passcape
Software.
                                                                 Opera
Firefox.
       : "100%
                                                                   ?".
1.
2.
                  light normal
3.
4.
5.
                                                          3 - 4
6.
7.
8.
                                                               6 - 7
9.
10.
                                                                                     9
11.
12.
                                          11.
      1-2 -
3-5 -
```

8



Windows Vista



9

Windows 2000, XP, 2003:

```
BOOL CheckCachedDomainPassword(LPCTSTR cszUserName, LPCTSTR cszPassword, BYTE pCheckHash[0x10]) {
     WCHAR wsz[256];
     BYTE pHash[0x10];
     INT iLen;

     iLen=strlen(cszPassword);
     MultiByteToWideChar(CP_ACP,MB_PRECOMPOSED,cszPassword,iLen,wsz,256);
     Md4Init();
     Md4Update((LPBYTE)wsz,iLen*2);
```

```
Md4Final(pHash);

iLen=strlen(cszUserName);
MultiByteToWideChar(CP_ACP,MB_PRECOMPOSED,cszUserName,iLen,wsz,256);
CharLowerW(wsz);
Md4Init();
Md4Update(pHash,0x10);
Md4Update((LPBYTE)wsz,iLen*2);
Md4Final(pHash);

return ( memcmp(pCheckHash,pHash,0x10)==0 );
}
```