

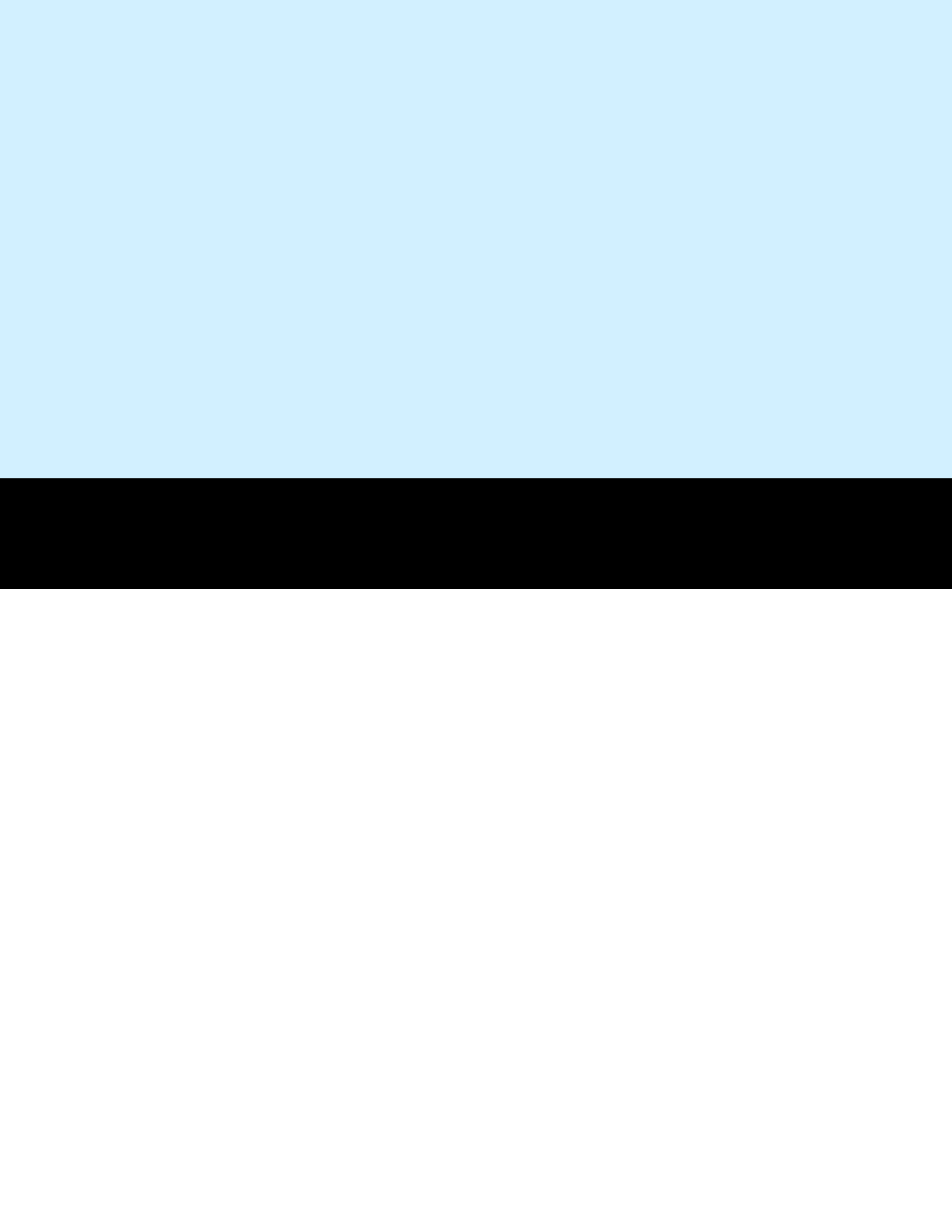
Wireless Password Recovery

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Passcape Software

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1
1.1



Wireless Password Recovery -
WPA/WPA2. Wireless Password Recovery
, Artificial Intelligence Pass-phrase
recovery.
WPA WPA2,
. Wireless Password Recovery
WPA-PSK (Pre-Shared Key).

1.2



Wireless Password Recovery :

- , CPU GPU.
- 10 ,
- .
- ,
- WPA/WPA2 " ".
- , ASCII, UNICODE,UTF8, PCD,
- RAR ZIP.
- (2)
- , !

1.3

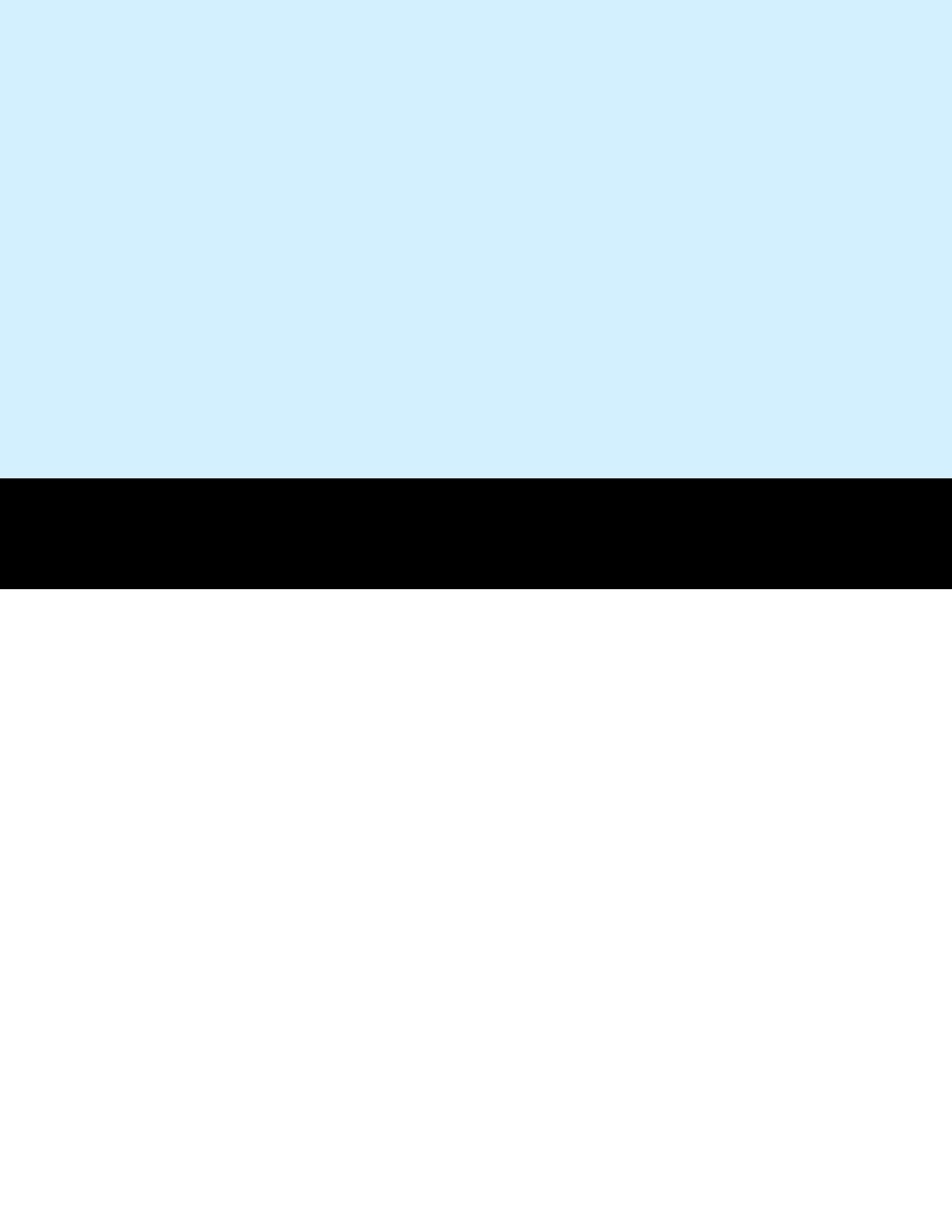


Windows® XP , 50 , 512 RAM.
CUDA 3.0 NVidia AMD - OpenCL1.2 (Intel HD Graphics 4xxx)
RADEON 7xxx).

GDIPLUS.DLL

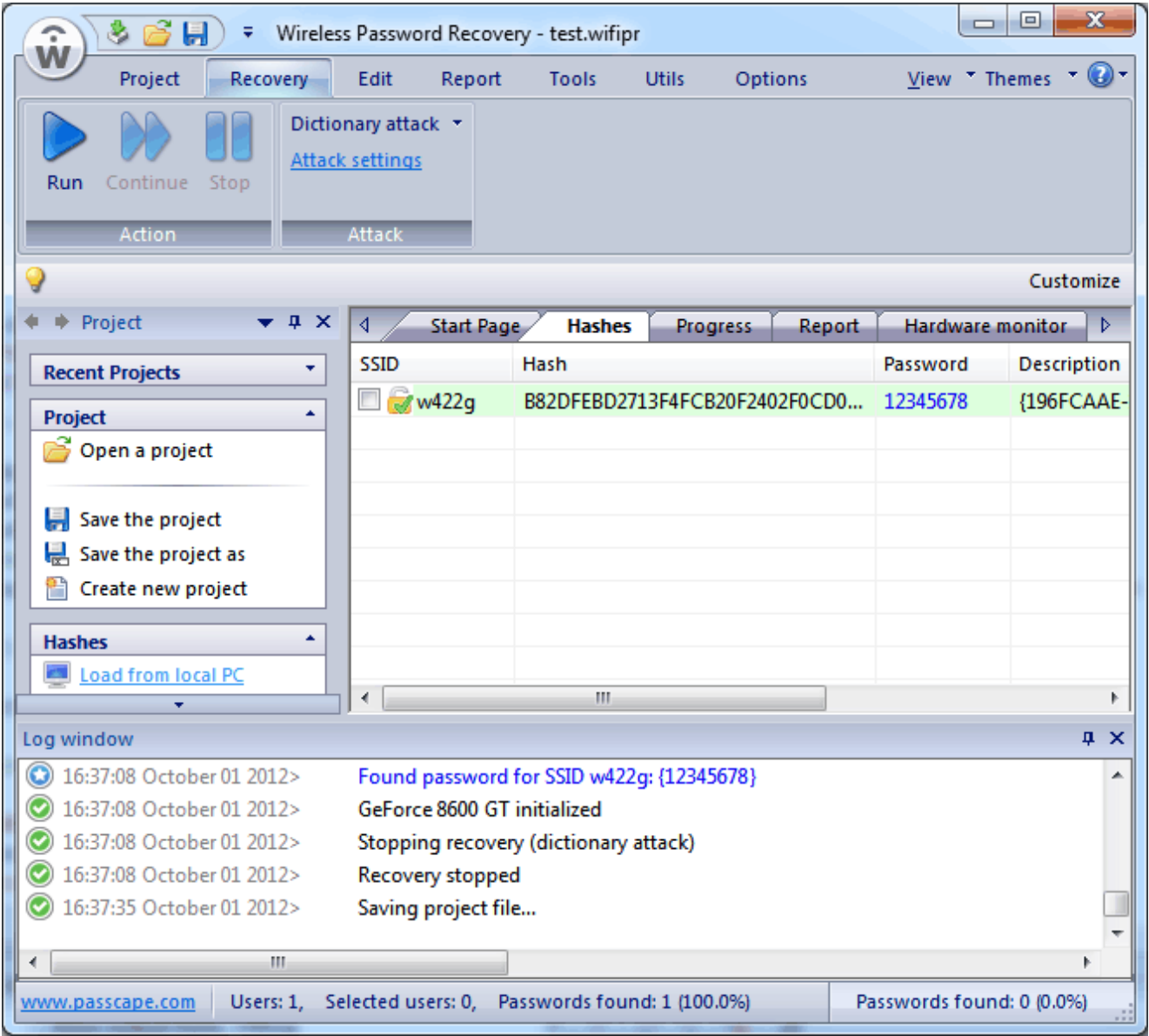
Windows 2000,

"False Alert",



2
2.1

- SDI
- 4
1. ()
2. :
3. :
4. :



- Information Bar -

- Task Bar

- -

- -

- Main Window -

()

- Log Window -

- Status Bar -

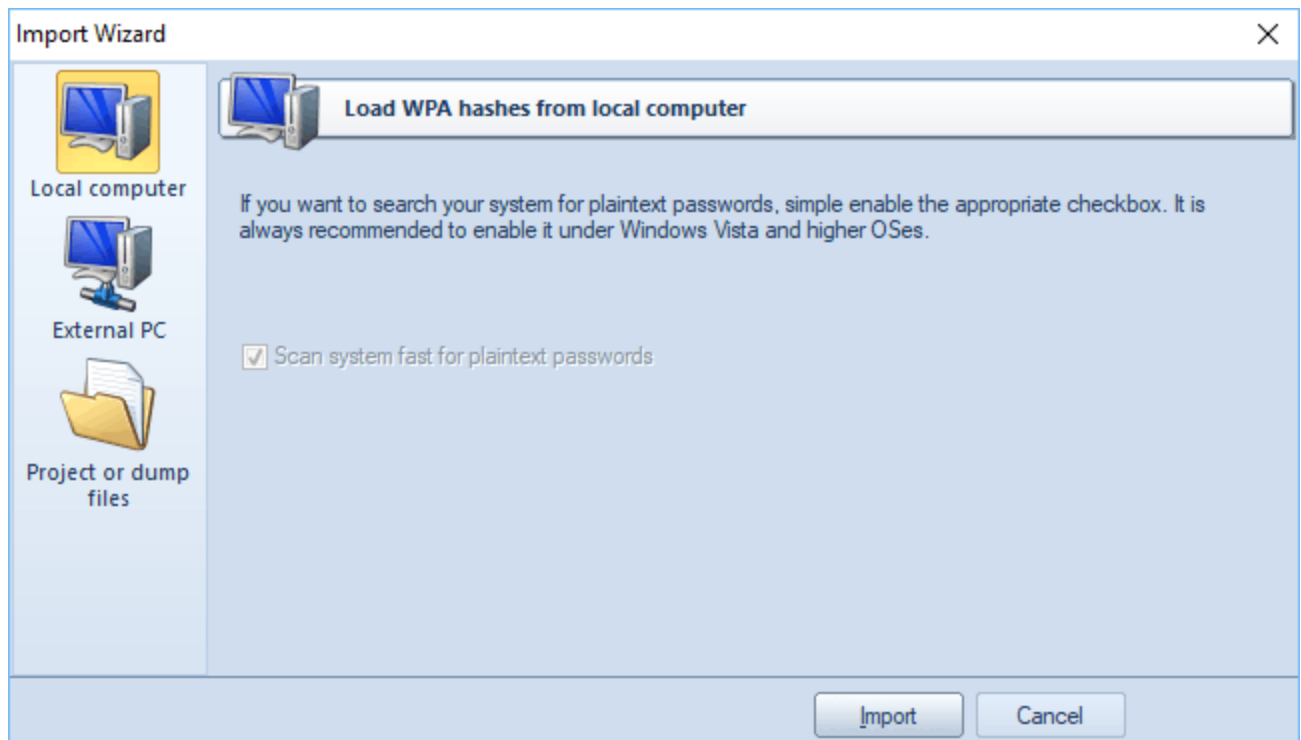
2.2

2.2.1

Wireless Password Recovery

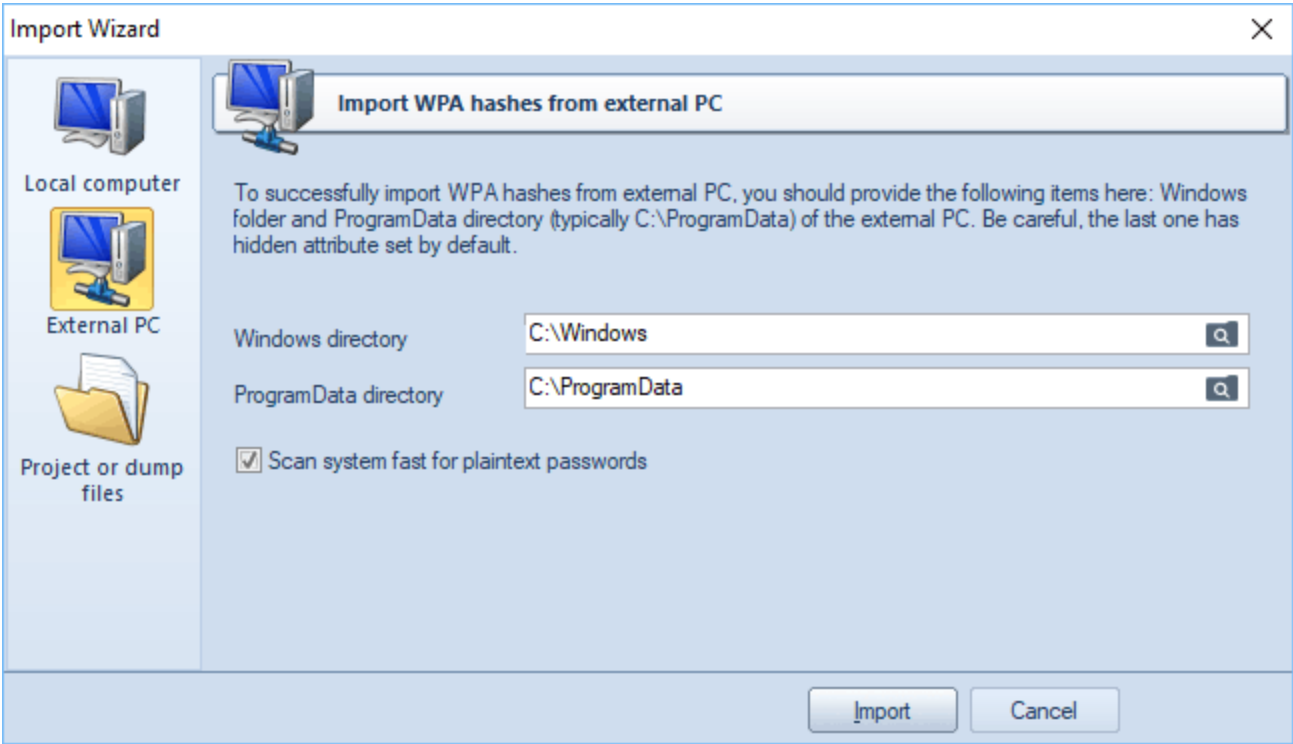
WPA-PSK

2.2.1.1



WPA-PSK
: (Windows
Windows
XP) (Windows Vista).
Vista
". WPA/WPA2 enterprise (5.0).

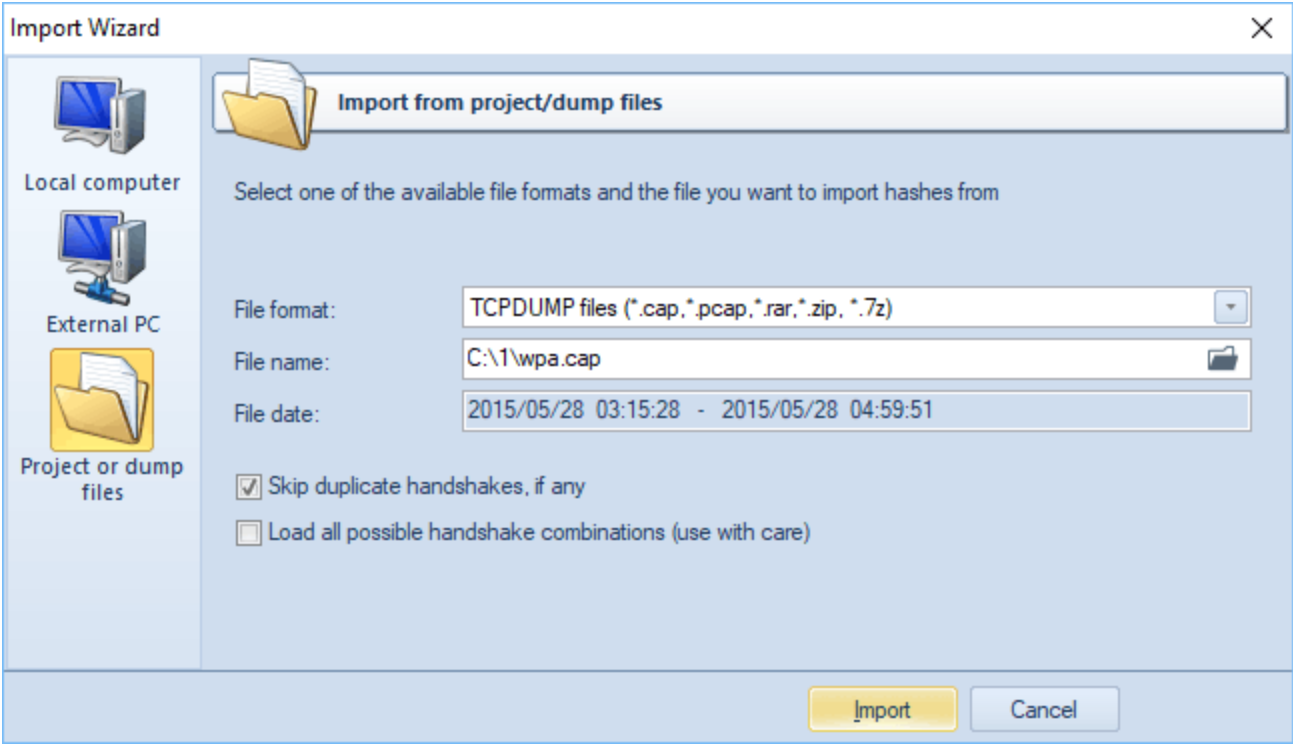
2.2.1.2



Wireless Password Recovery WPA-PSK
HDD
Windows ProgramData.
:
• %WINDOWS%\System32\Config SAM, SYSTEM,
SECURITY SOFTWARE.
•
•
•
• Vault

• , , .

2.2.1.3



- WPA-PSK
- **TCPDUMP** (*.cap, *.pcap, *.tcpdump, *.txt) - TCP IP - tcpdump: airodump-ng, CommView for Wi-Fi, OmniPeek, Sniffer Global, Wireless Snif, WireShark (authentication handshake)
 - **Tamosoft CommView dump file (*.ncf)** - CommView for Wi-Fi.
 - **WPA-PSK HashCat (*.hccap, *.hccapx, *.hc22000)** Hashcat.
 - **JohnTheRipper WPA-PSK (*.txt)** JohnTheRipper.
 - **Elcomsoft EWSA (*.wkp)** Elcomsoft Wireless Security Auditor.
 - **WPA-PSK PMK InsidePro (*.txt)** InsidePro. SSID.
 - **PWDUMP WIFIPR (*.wifiprdump)** Wireless Password Recovery WPA-PSK
 - **PMKID - hashcat, PMKID.**

2.2.7

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2.2.8

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2.3



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2.3.1

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2.3.2

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2.3.3

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2.4

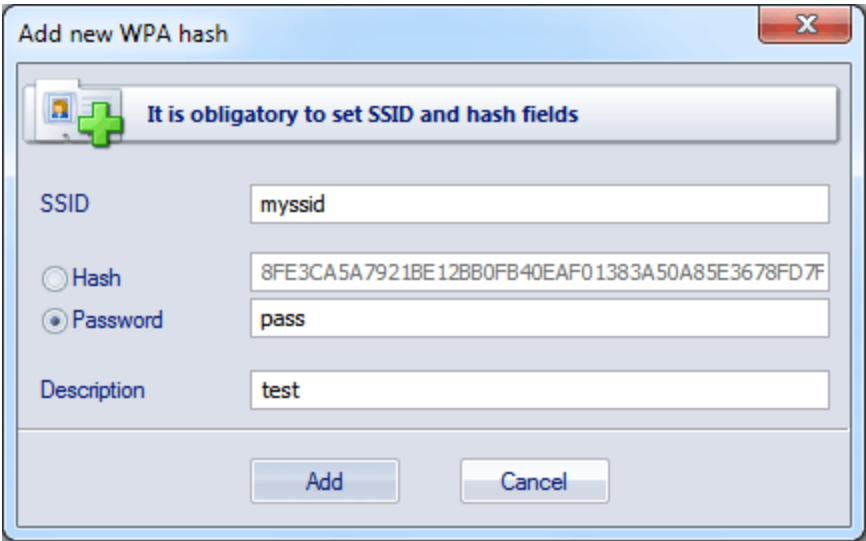


" " :

2.4.1

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2.4.2



2.4.3

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2.4.4

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2.4.5

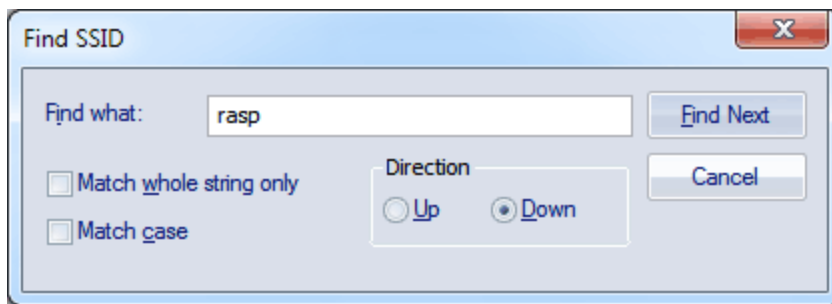
().

2.4.6

() Windows.
SSID

2.4.7

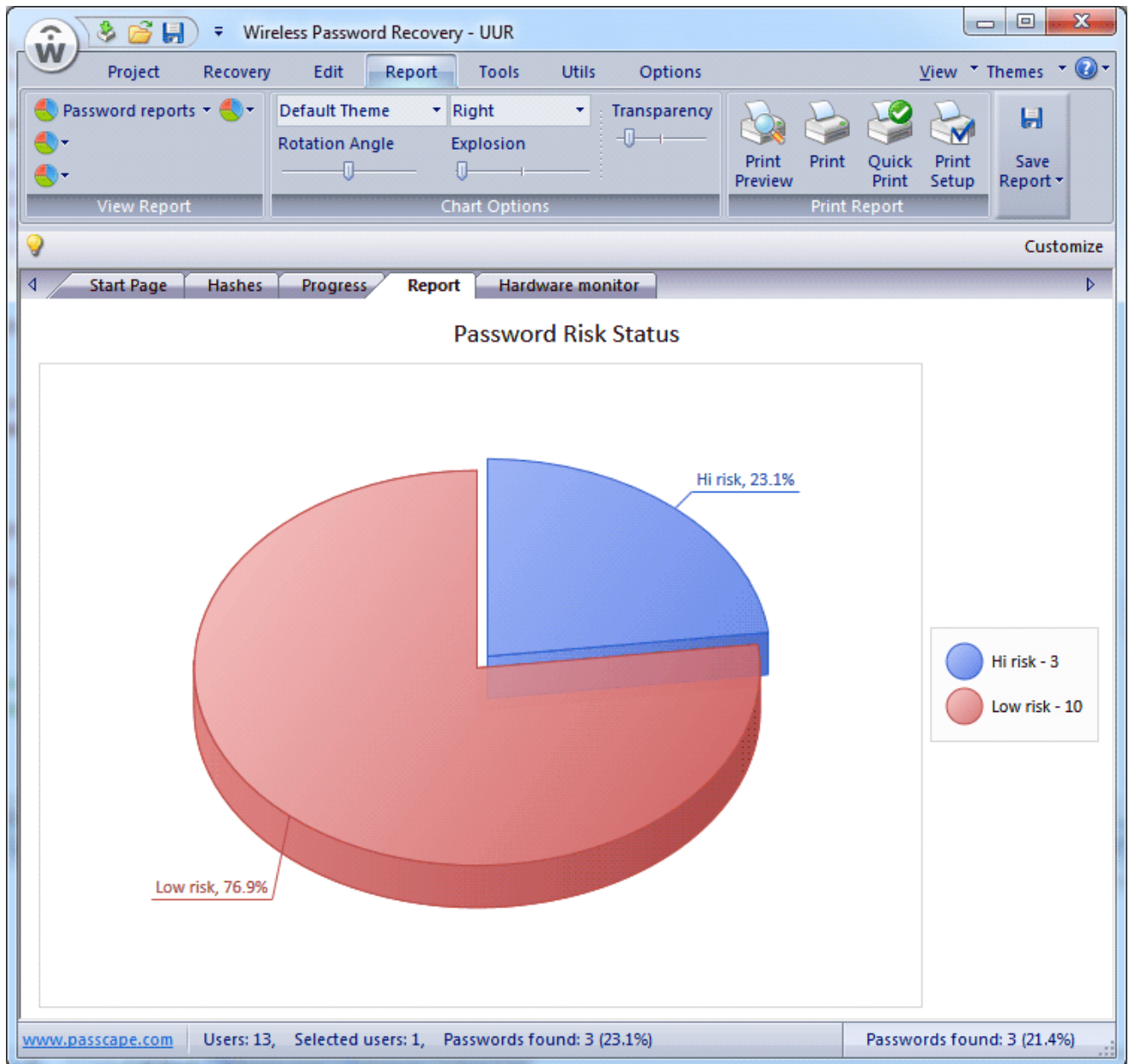
2.4.8



, SSID

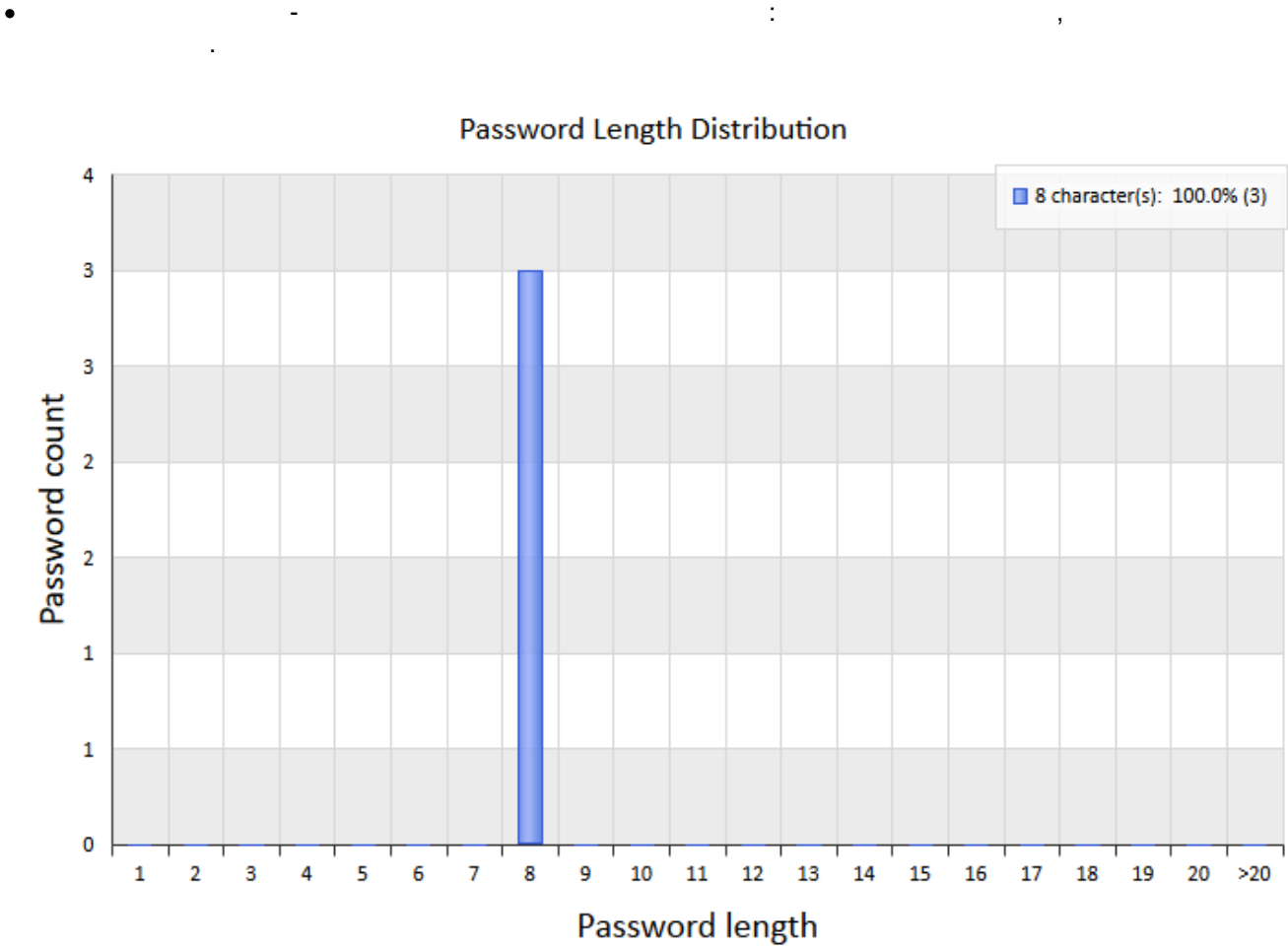
2.5

-



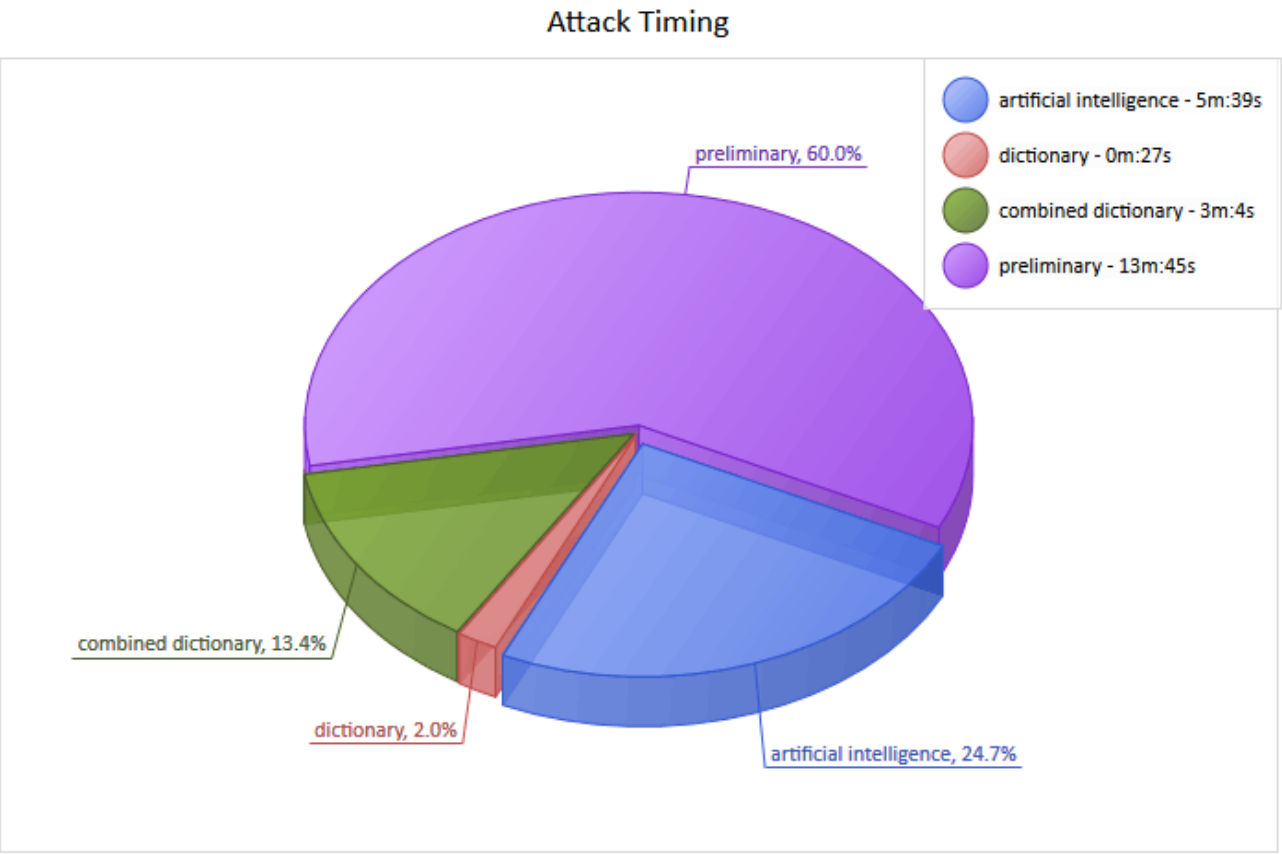
2.5.1

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2.5.2

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• 2 - :



2.5.3

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GPU -

2.5.4

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• - ,

• 20
DDUUUUDD

• ,

• -

• ,

• -

• digit-string-special

• : 123password!@#, 1ove****, 12monkey^

• 20

• - 20

• (1

• 3)

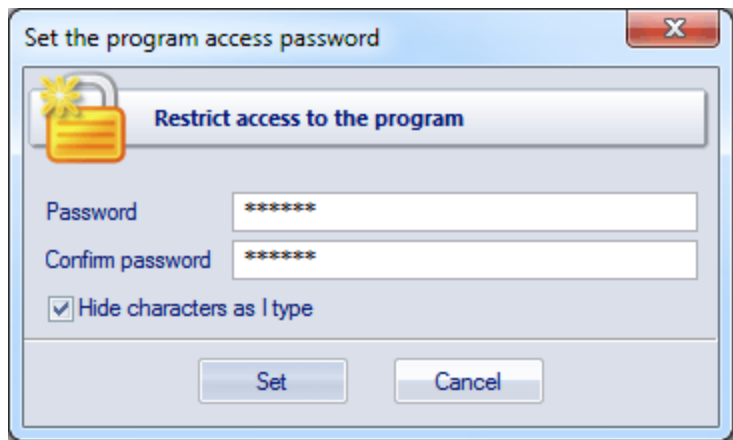
• (1

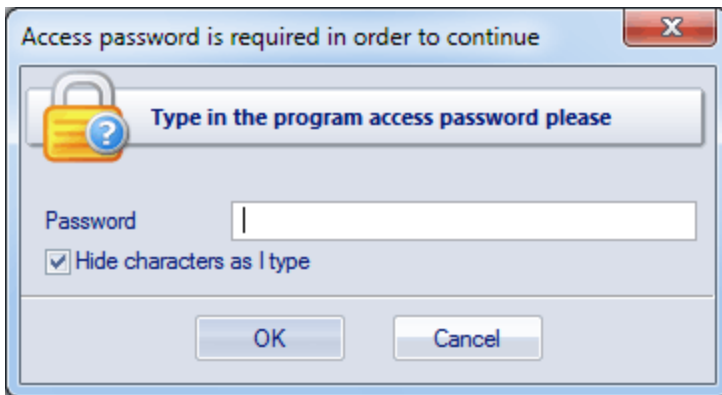
• 5)

• - 20 4 8

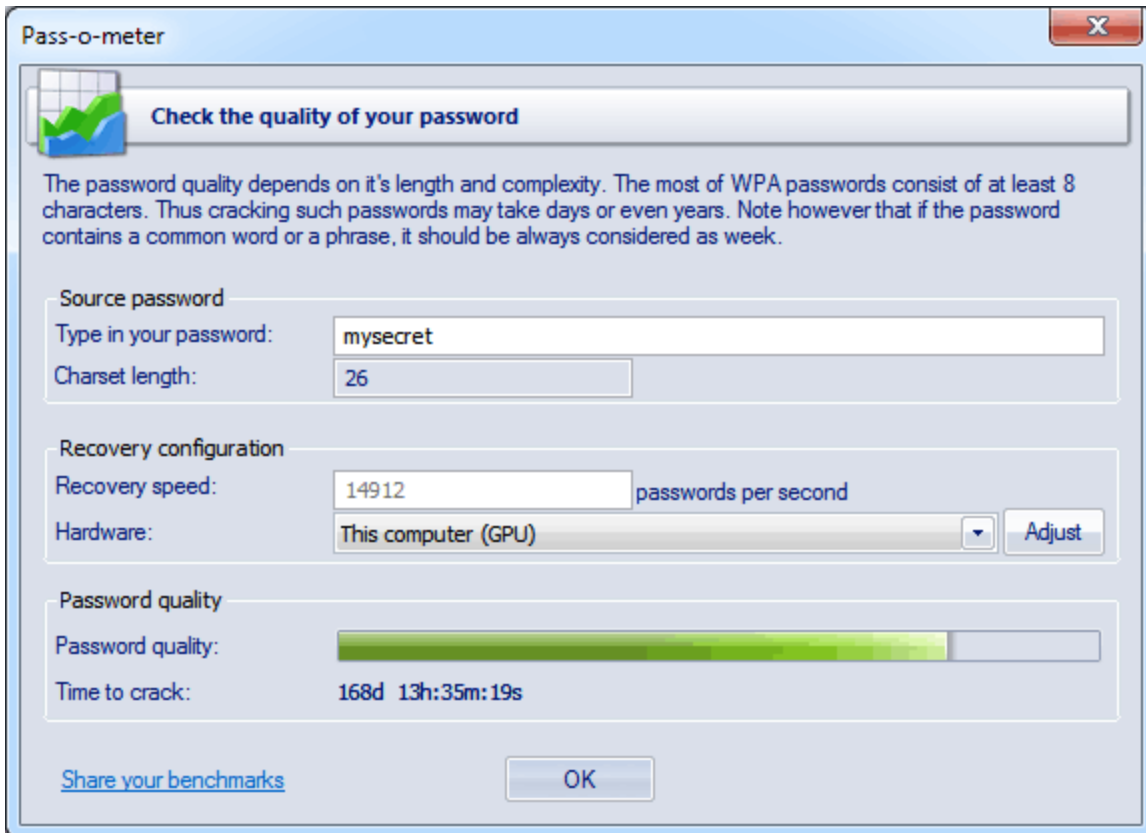
2.6

2.6.1





2.6.2



•


•

•

GPU

2.6.3

WPA password checker

 Enter a password to check it's hash

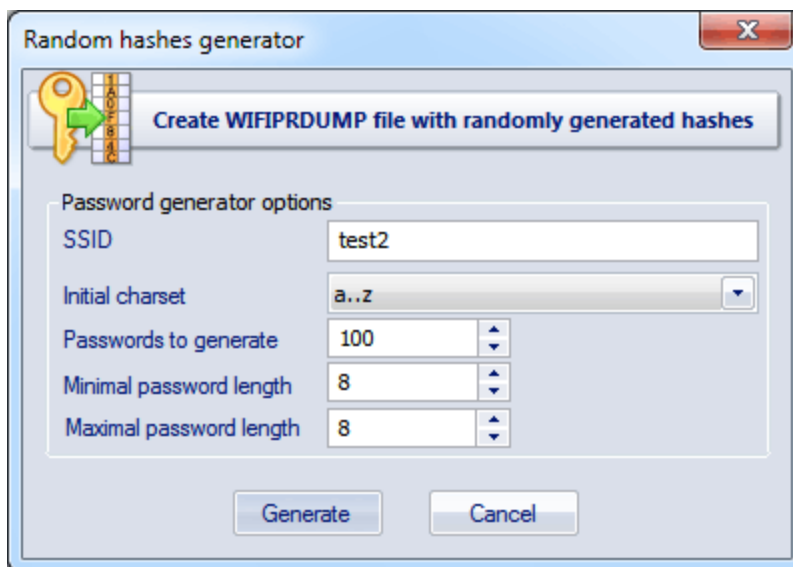
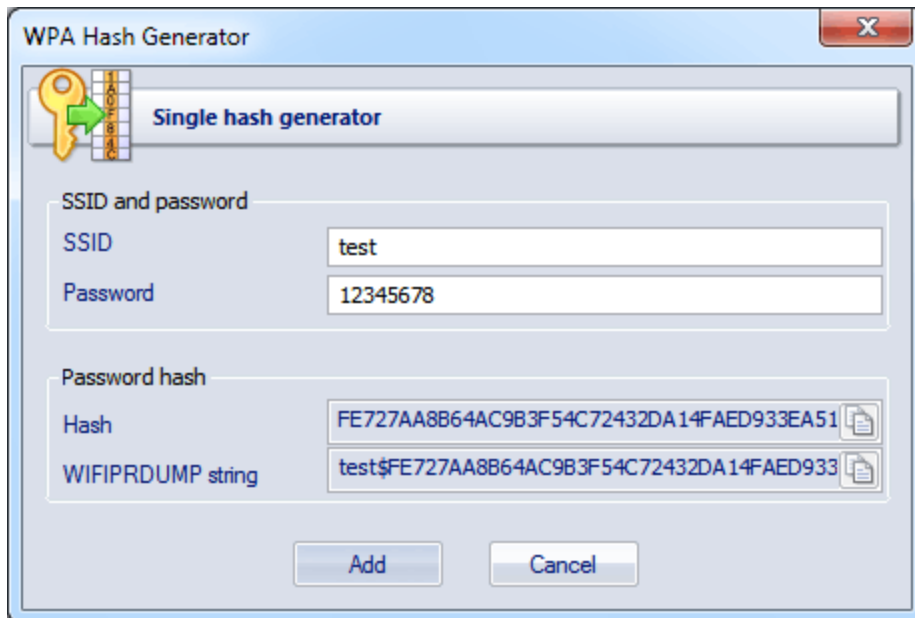
Password	12345678
SSID	AXLER-AP
Hash	13CBF50E7195841B670A8050D041D47E
Status:	Matched !!!

Hashes to compare with

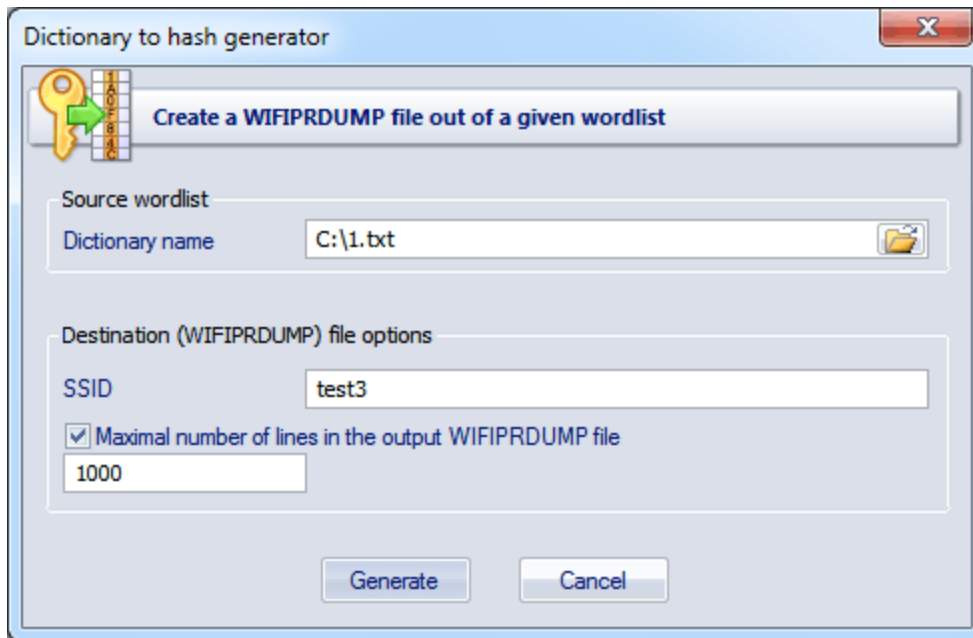
Hash to compare with	AXLER-AP
----------------------	----------

Remember Cancel

2.6.4



WIFIPRDUMP



WIFIPRDUMP

SSID.

WIFIPRPWDUMP

2.6.5

Handshake generator

Create custom WPA handshake

Source and destination addresses

AMAC E8DE27562336

SMAC 00216B914CD2

Handshake-related info

SSID test

ANONCE 613B355EAE4F1C7BE216736E5F969DF72DFAB297B931C30878079C6594036546

SNONCE 8C94749250E448449F57305A470AFA30D21AEC973F38C2488F27B39F65C78295

EAPOL D51444DD7DCE13B52D283F2404A521D80BFAA755A63AEFE6EA826B289EF8335A3FAAED24E7

Password-related info

Keyver 2

MIC C05C11101A9487BF6A8CBC2360AE5B87

☐ I know the password


Password

Add Cancel

WPA

2.6.6 PMKID

PMKID generator



Create custom PMKID

Source and destination addresses

AMAC

e8de27562336

SMAC

00216b914cd2

Handshake-related info

SSID

HOME

ANONCE

SNONCE

EAPOL

Password-related info

VER

WPA

PMKID

A8311C064EE9DB424C70AF1B482A3561

☐ I know the password

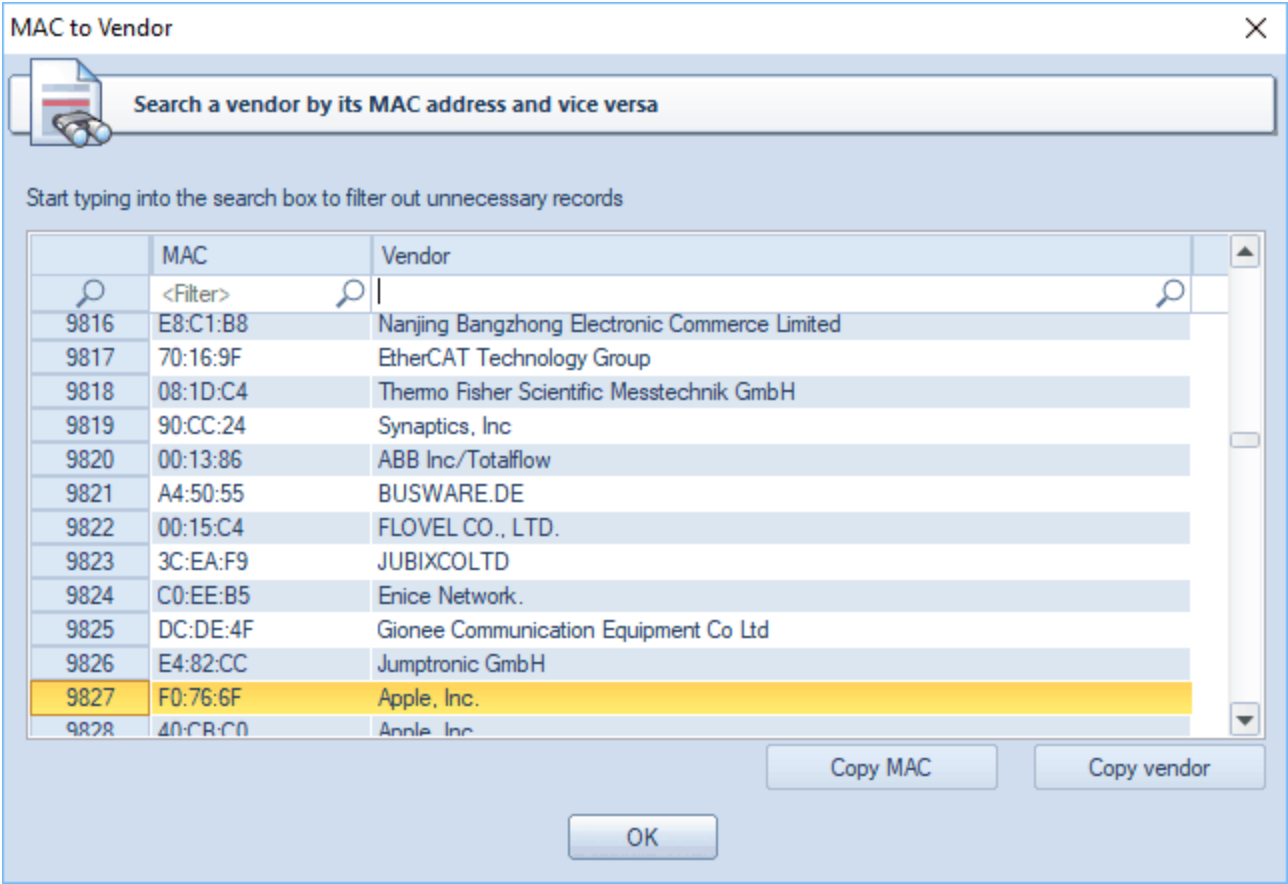
Password

Add

Cancel

PMKID

2.6.7 MAC



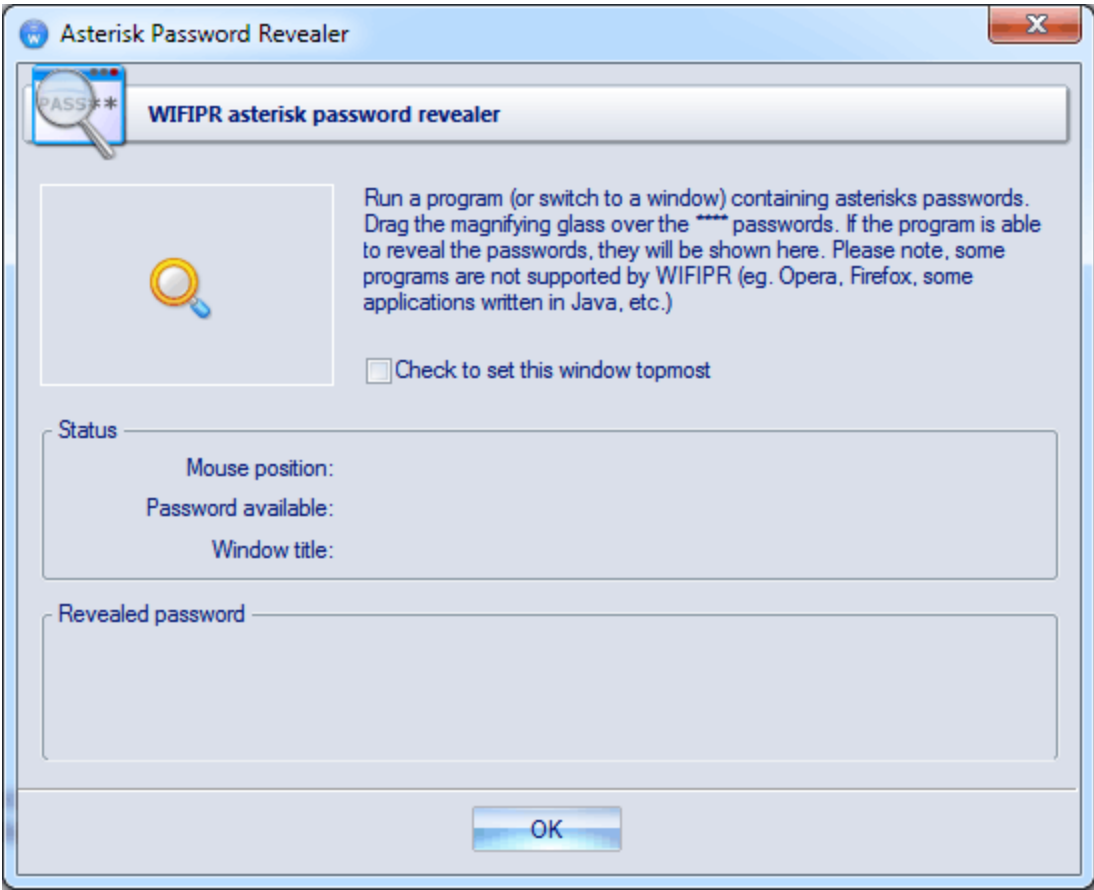
MAC

MAC , MAC < >

2.7



2.7.1



drag-n-drop:

GUI, asterisks revealer
Opera, Mozilla, Firefox

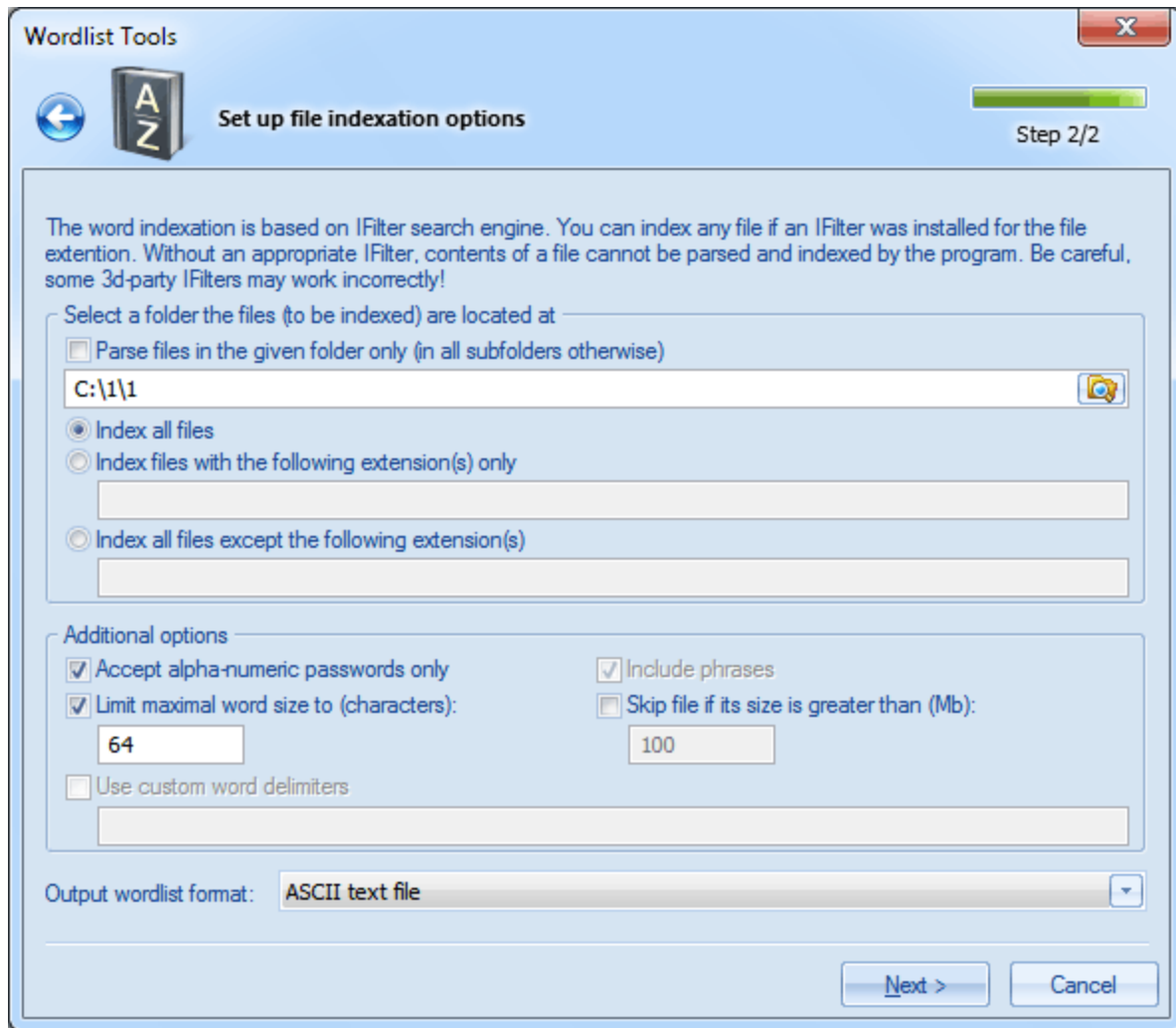
mail.yahoo.com,

* (!).
Windows,

2.7.2

2.7.2.1

,
.
()
*.html, *.xml, *.txt, *.doc , *.mdb, *.pdf,
*.exe . .
IFilter, [Wikipedia.](#)
Microsoft, ,
IFilter.
*.exe, *.dll,
IFilter,
, Wireless Password Recovery :
: *.zip, *, cab, *.rar
: *.exe, *.dll, *, cpl, *.ocx, *.sys, *.scr, *.drv
: *.txt, *.dic
internet: *.html, *.htm
IFilter.
Windows 7 Windows Desktop Search,
Windows Desktop Search , Microsoft.



: txt,dic,xml,chm,htm

256)

8-64

WPA-PSK

64

• , " " IFilter'

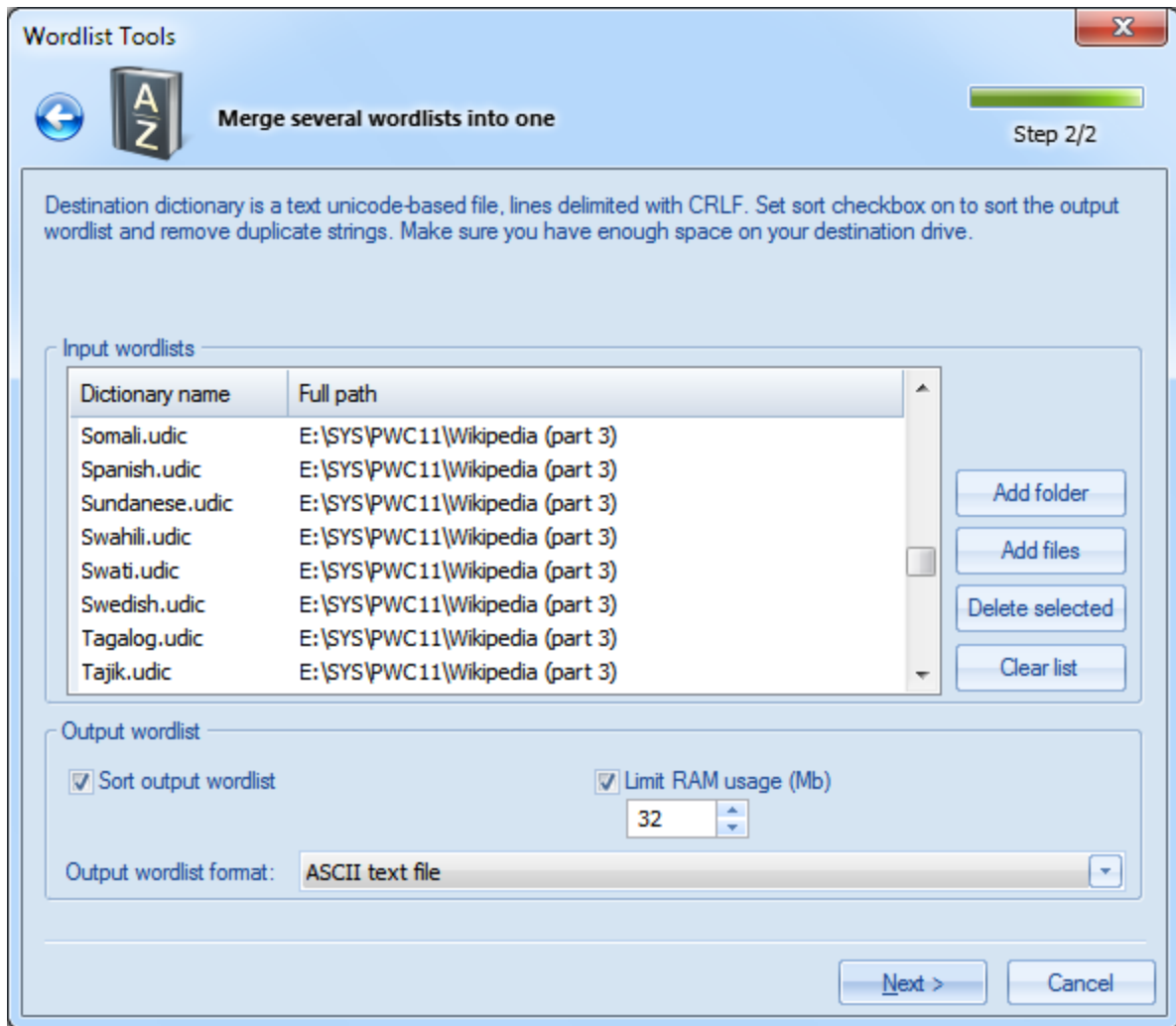
• , : !"#\$\$%&'()*+,-./:;<=>?@{}[]

\ ,

Next>

pdf Windows XP.

2.7.2.2



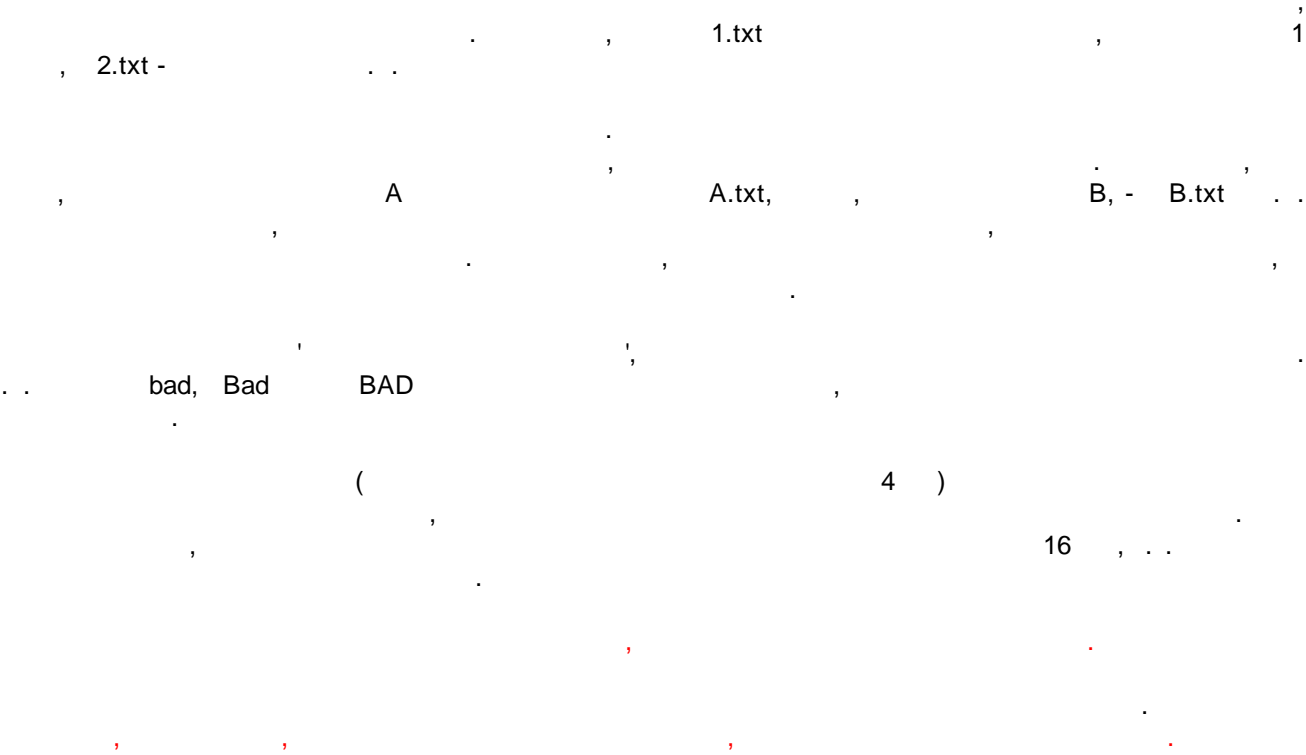
2.7.2.3

- , UNICODE), ASCII - 8. 16 (pcd 1 ().
- , 1, 2, 3 . .
- ()

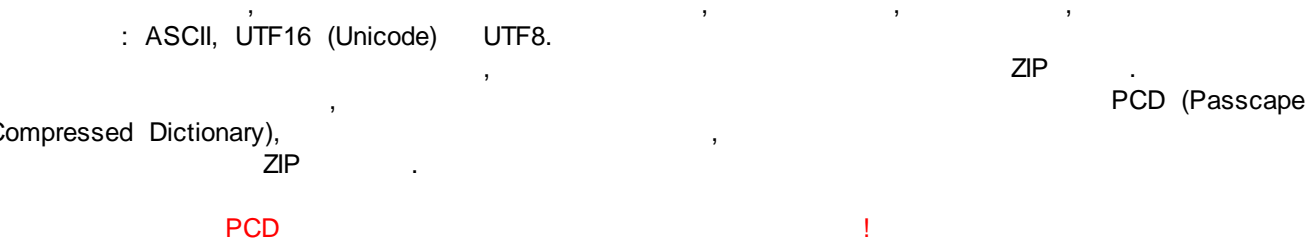
2.7.2.4

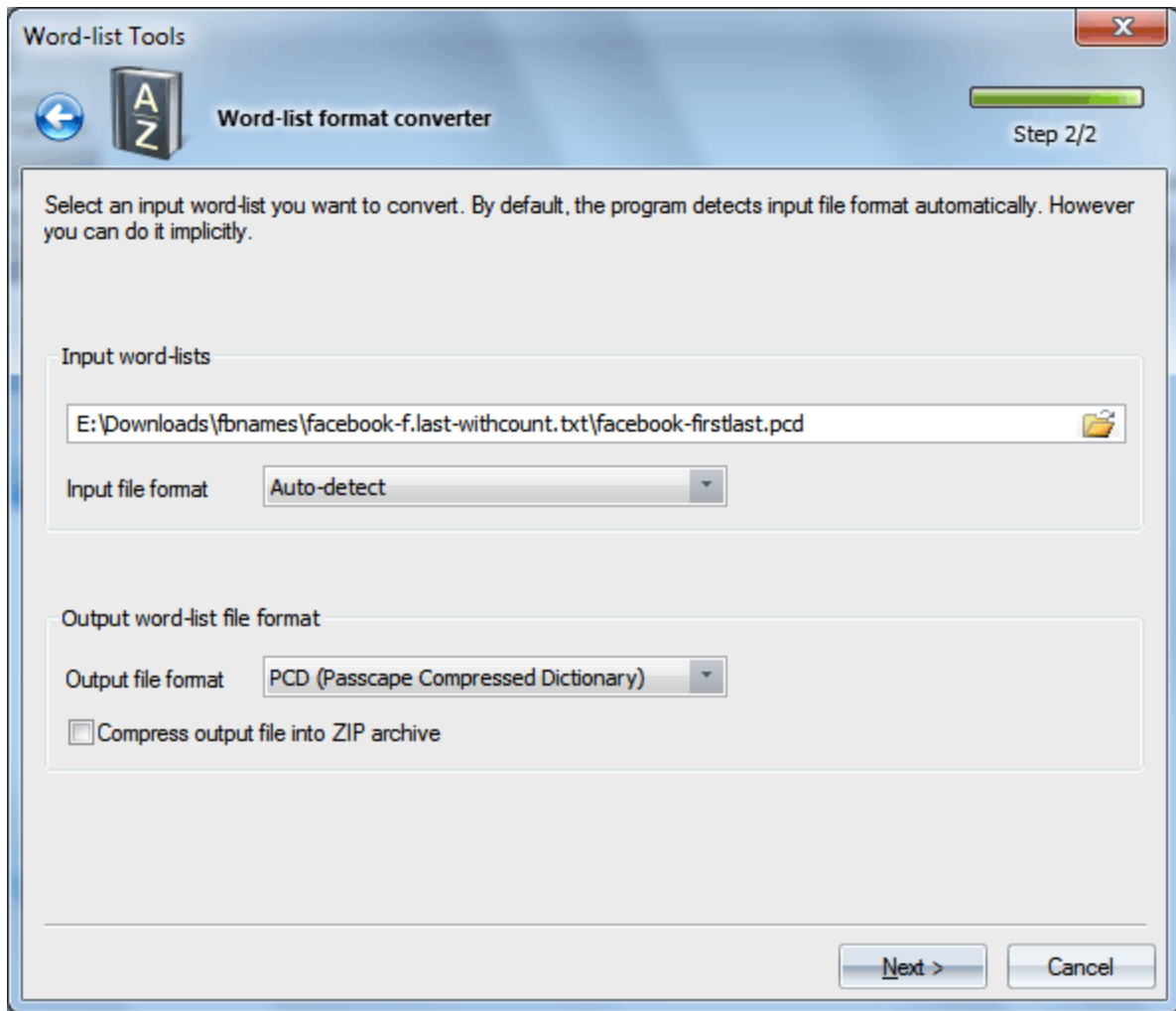
6 , 4 2 ()





2.7.2.5





PCD

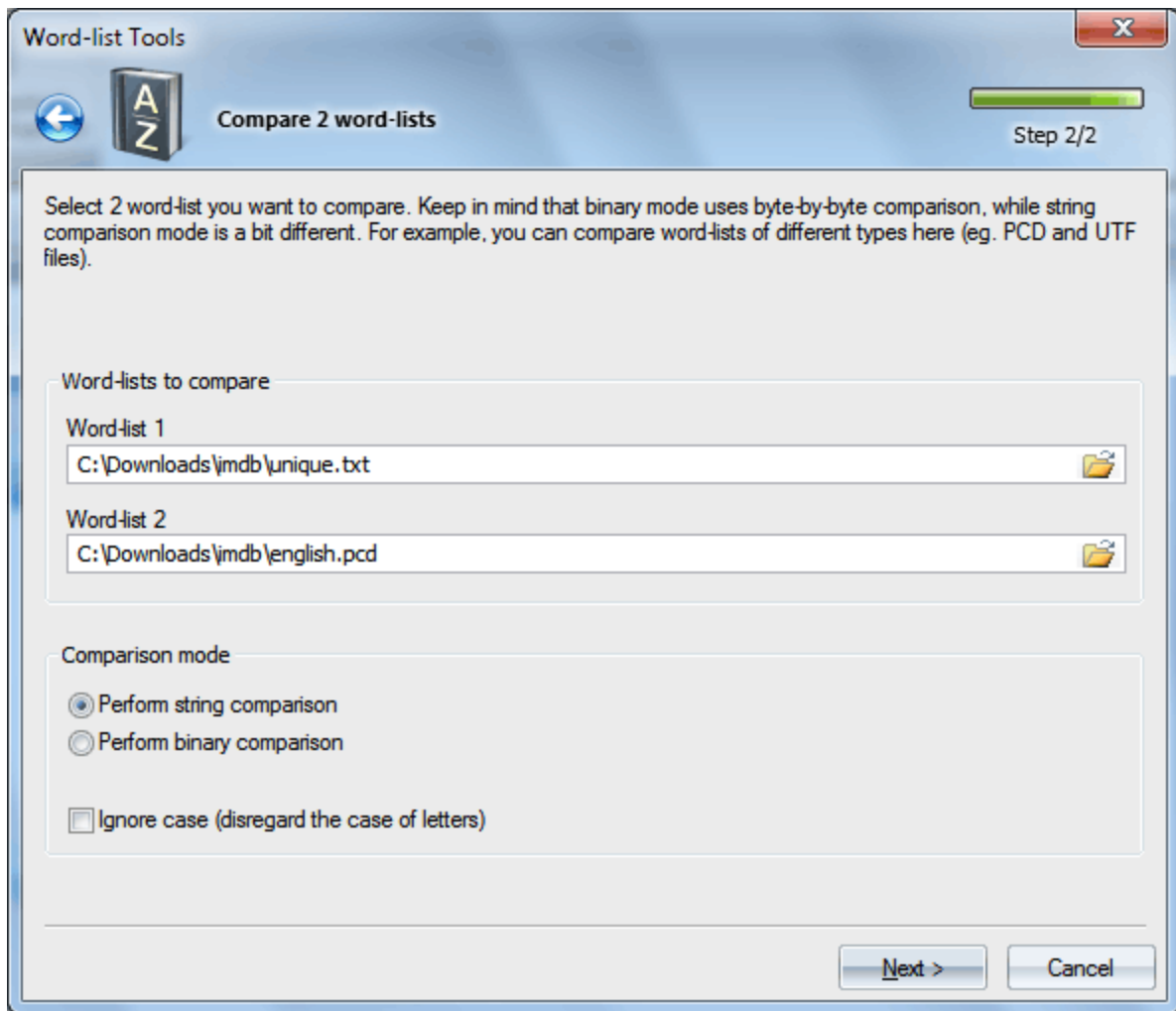
UTF16

UTF8

ASCII.

ZIP

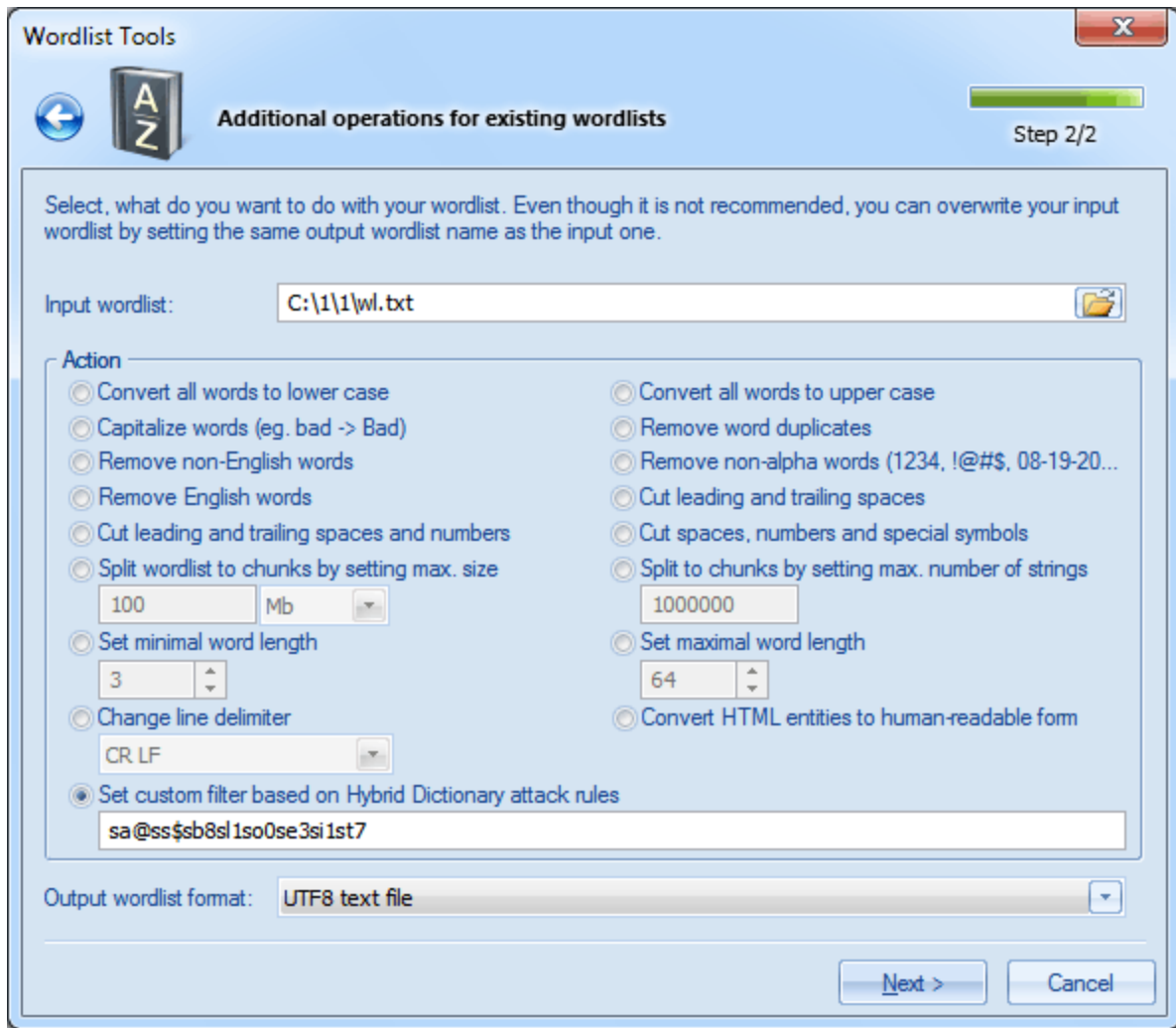
2.7.2.6



- 1.
- 2.

,
, PCD UNICODE, UNICODE ASCII.
(),
, bad Bad

2.7.2.7



- : , BAD -> bad.
- , Bad -> BAD.
- , bad -> Bad.
- ()
- , 12345, !@#\$, 08-
- 19-10 . .
- /
- /
- /
- ,
- ,
- ,
- HTML , & -> & @ -> @

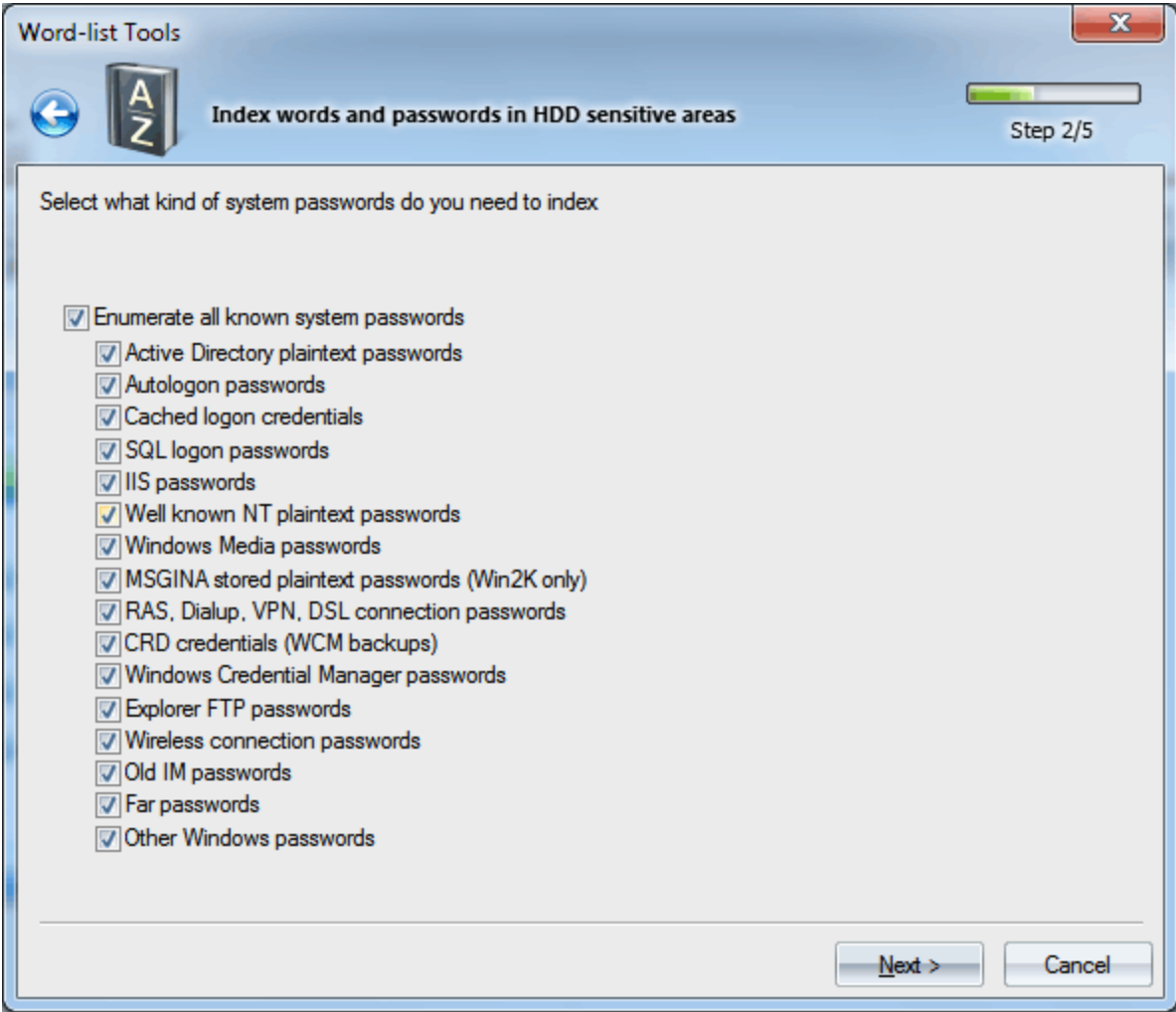
ASCII, UTF16, UTF8. ASCII, UTF16, UTF8 PCD.

().

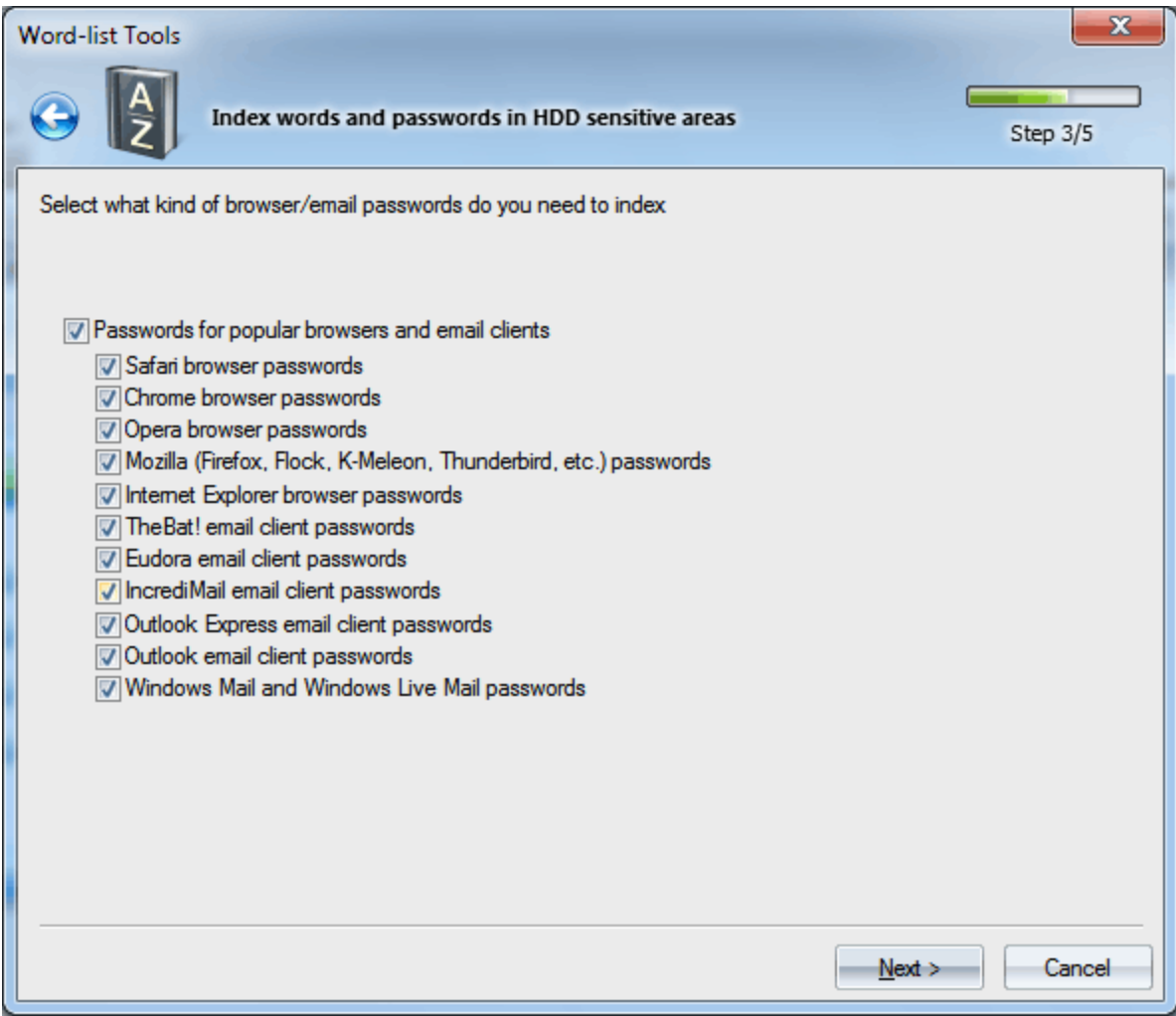
2.7.2.8

() - Windows.

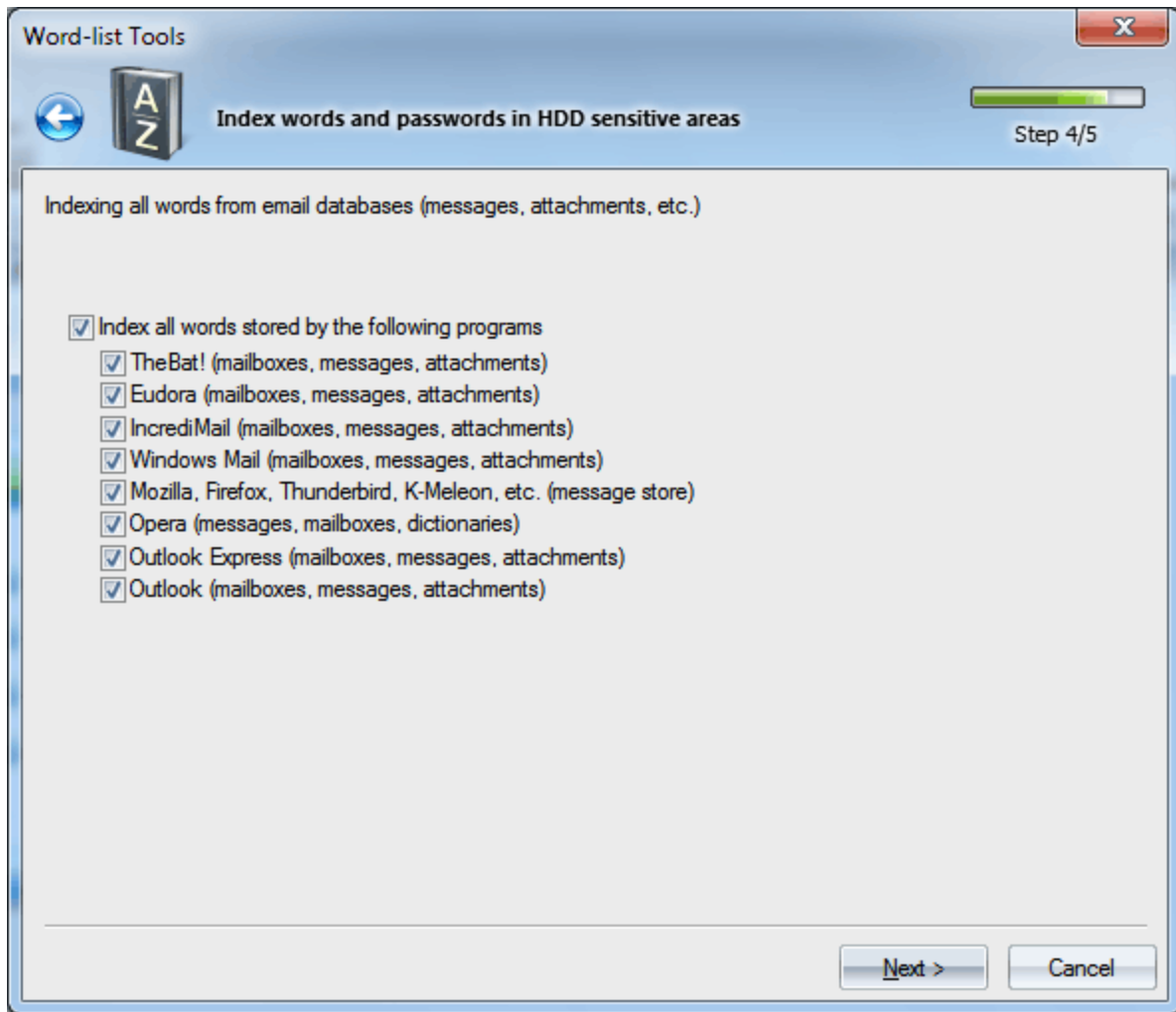
Web, ICQ , , Windows, . .



Active Directory, Win2K, RAS, Dialup, VPN, DSL, WEP, WPA, Instant Messenger' .
SQL, IIS, Windows Media, Windows Credential Manager, .

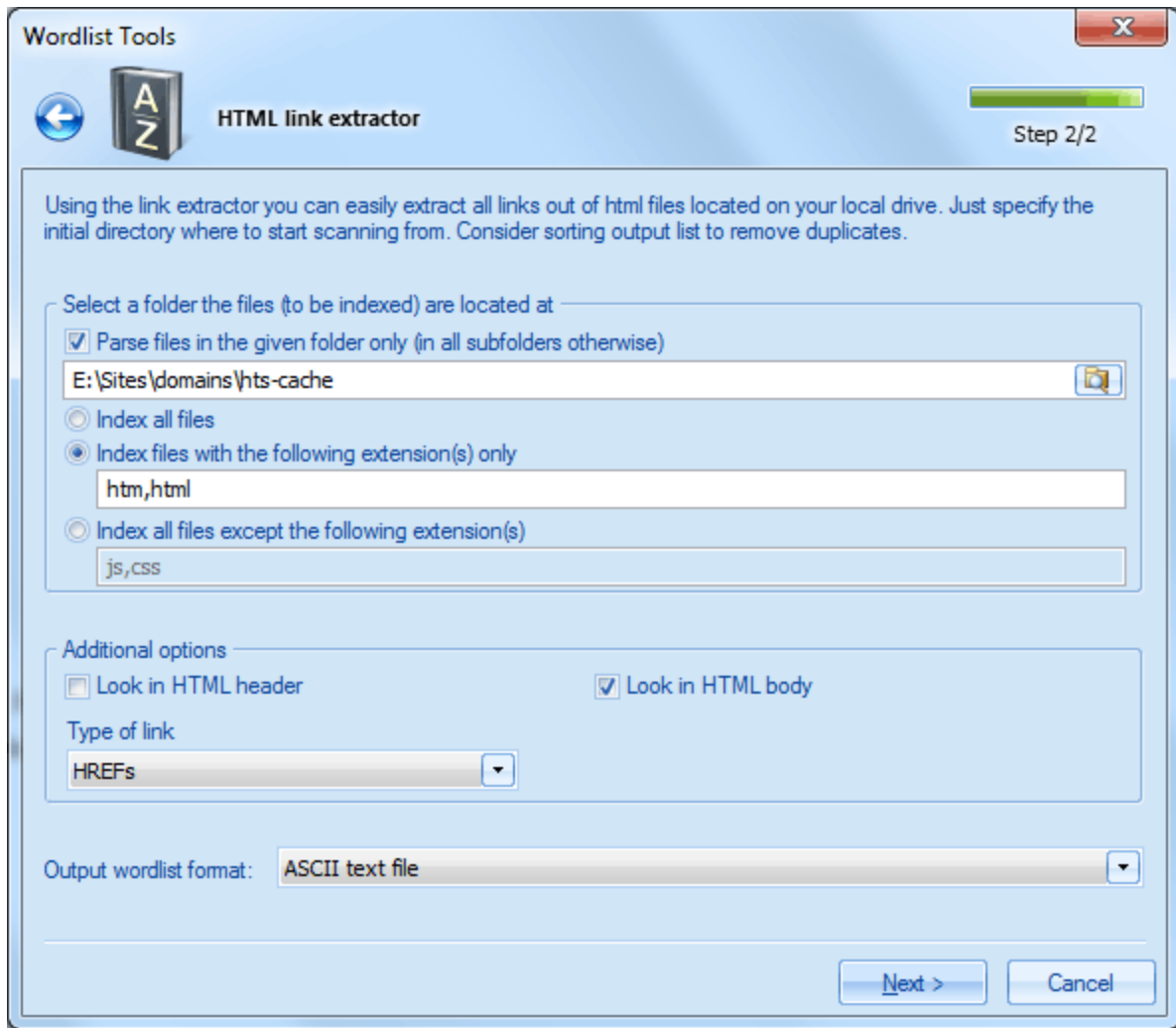


: Safari, Chrome, Opera, Mozilla (Firefox, K-Meleon, Flock . .), Internet Explorer.
: TheBat!, Eudora, IncrediMail, Outlook Express,
Outlook, Windows Mail, Windows Live Mail.



HTML

HTML

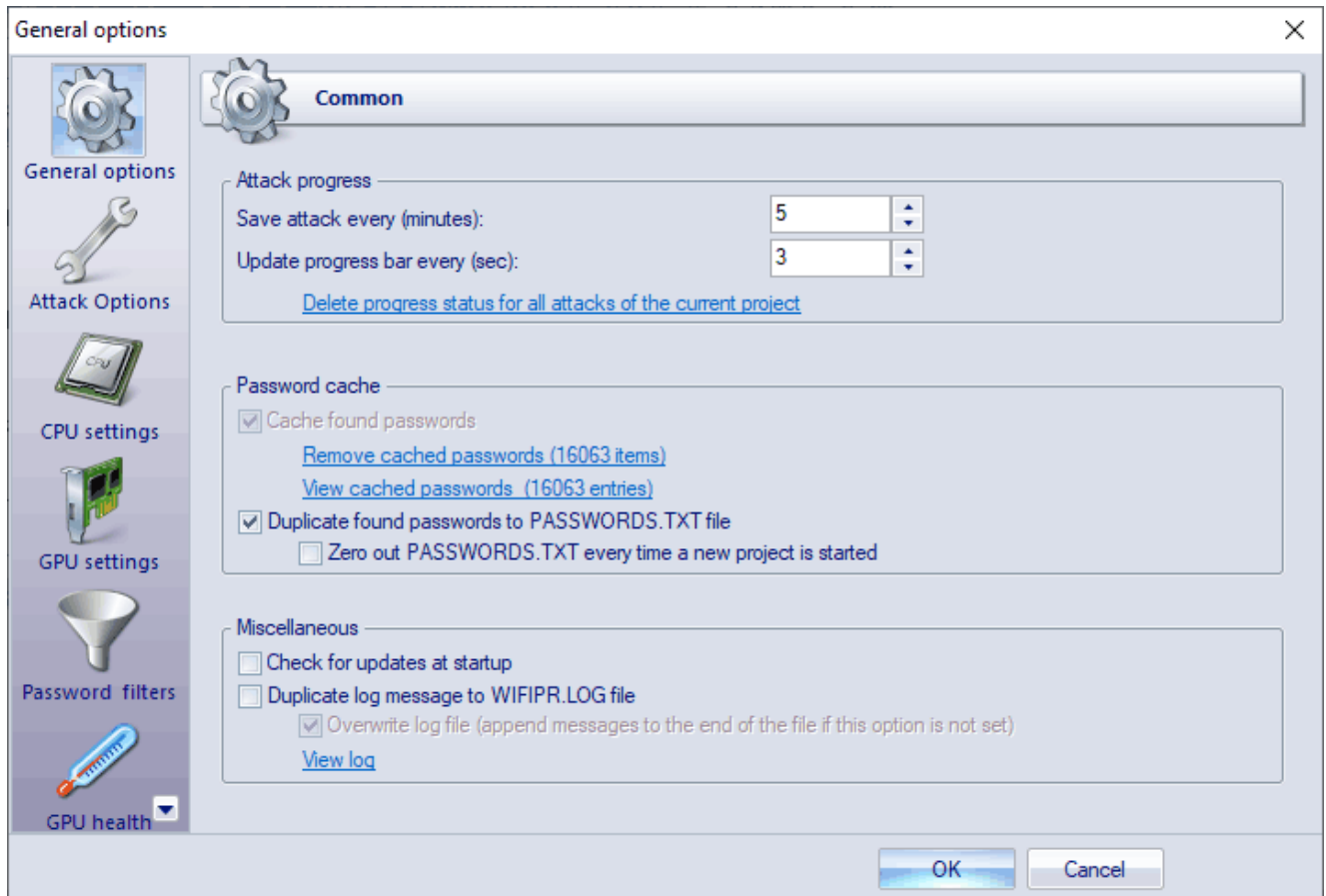


- , , , :
-
-
-
- , , , *.htm *.html .
-
- HTML .
- HTML .
- HREF, SRC .
-
- Next> , , ,

2.8

2.8.1

2.8.1.1

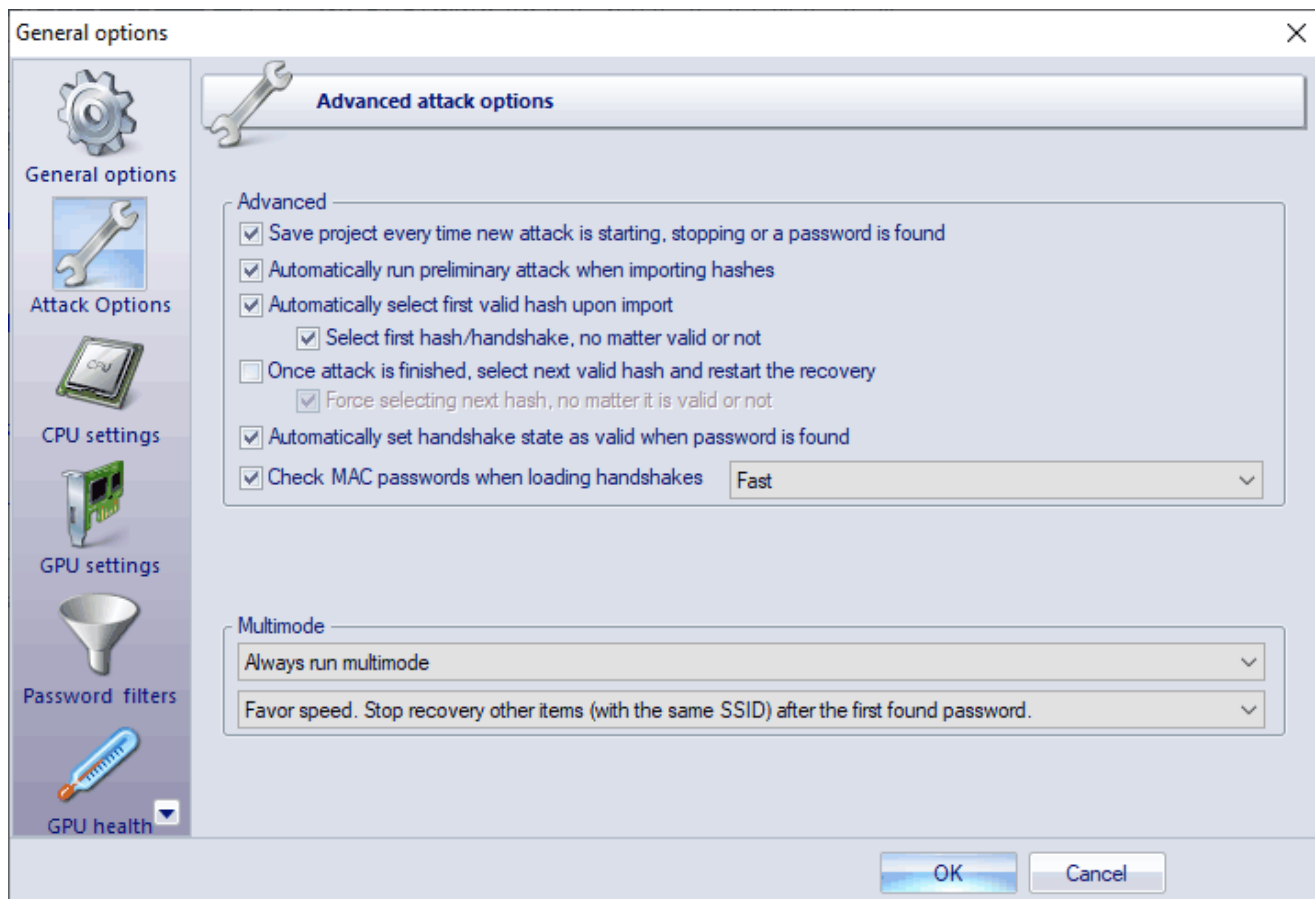


Check for updates at startup -

Duplicate log messages to wifipr.log file -
WIFIPR.LOG.
WIFIPR.LOG

Overwrite log file - WIFIPR.LOG

2.8.1.2



- 'Save project every time new attack is starting or stopping'.
- Automatically run preliminary attack when importing hashes.
- Automatically select first valid hash upon import.
- Once attack is finished, select next valid hash and restart the recovery.

- 'Set handshake state to valid when password is found'.

- Check MAC passwords when loading handshakes.

MAC

ESSID

- 'Multimode'.

PMKID), SSID.

(PMK

BSSID

PMKID,

SSID

BSSID,
PMKID-

SSID

SSID BSSID,

BSSID

: PMK,

PMKID.

SSID (

SSID.

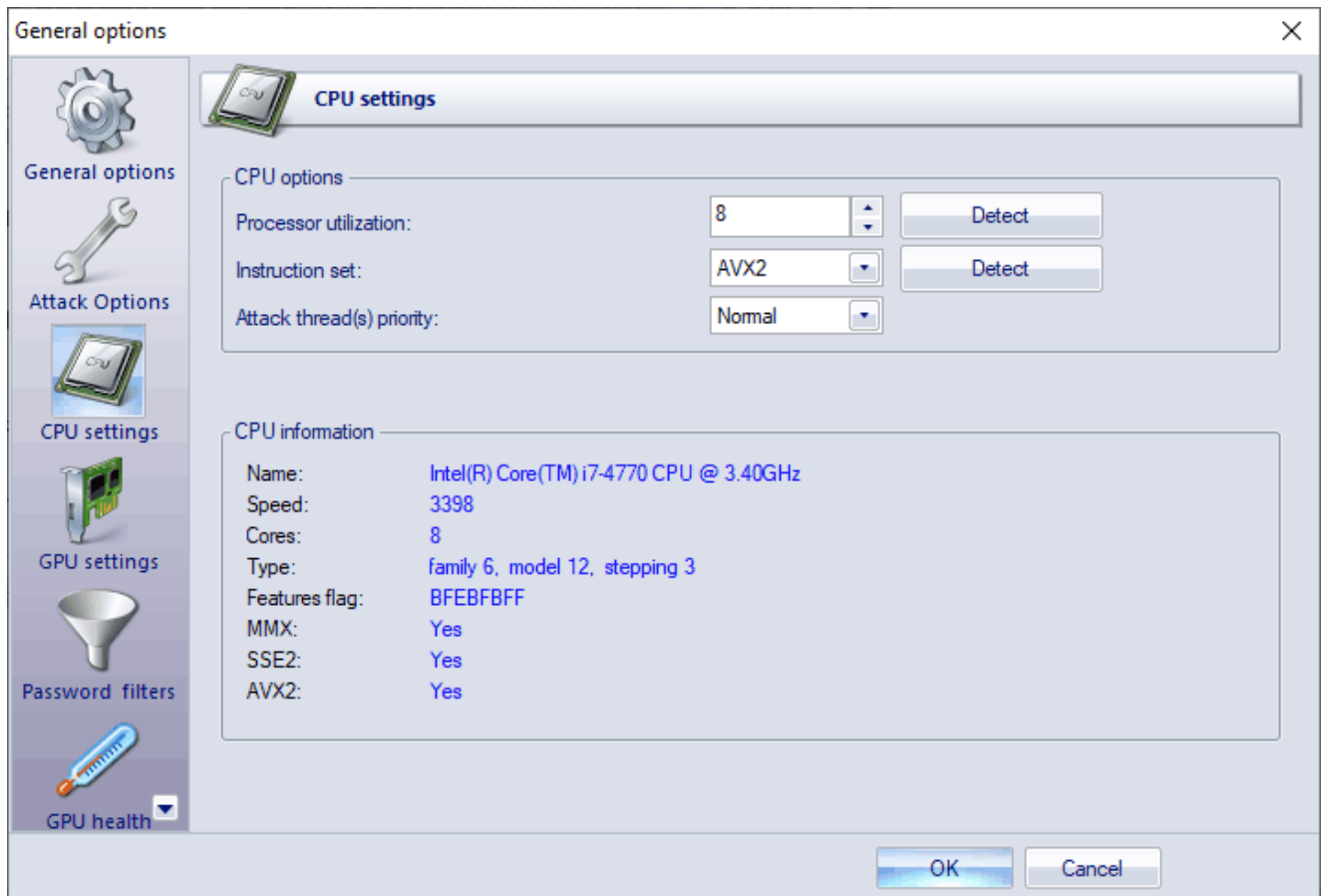
, PMKID,

PMK)

, PMK-

2.8.1.3

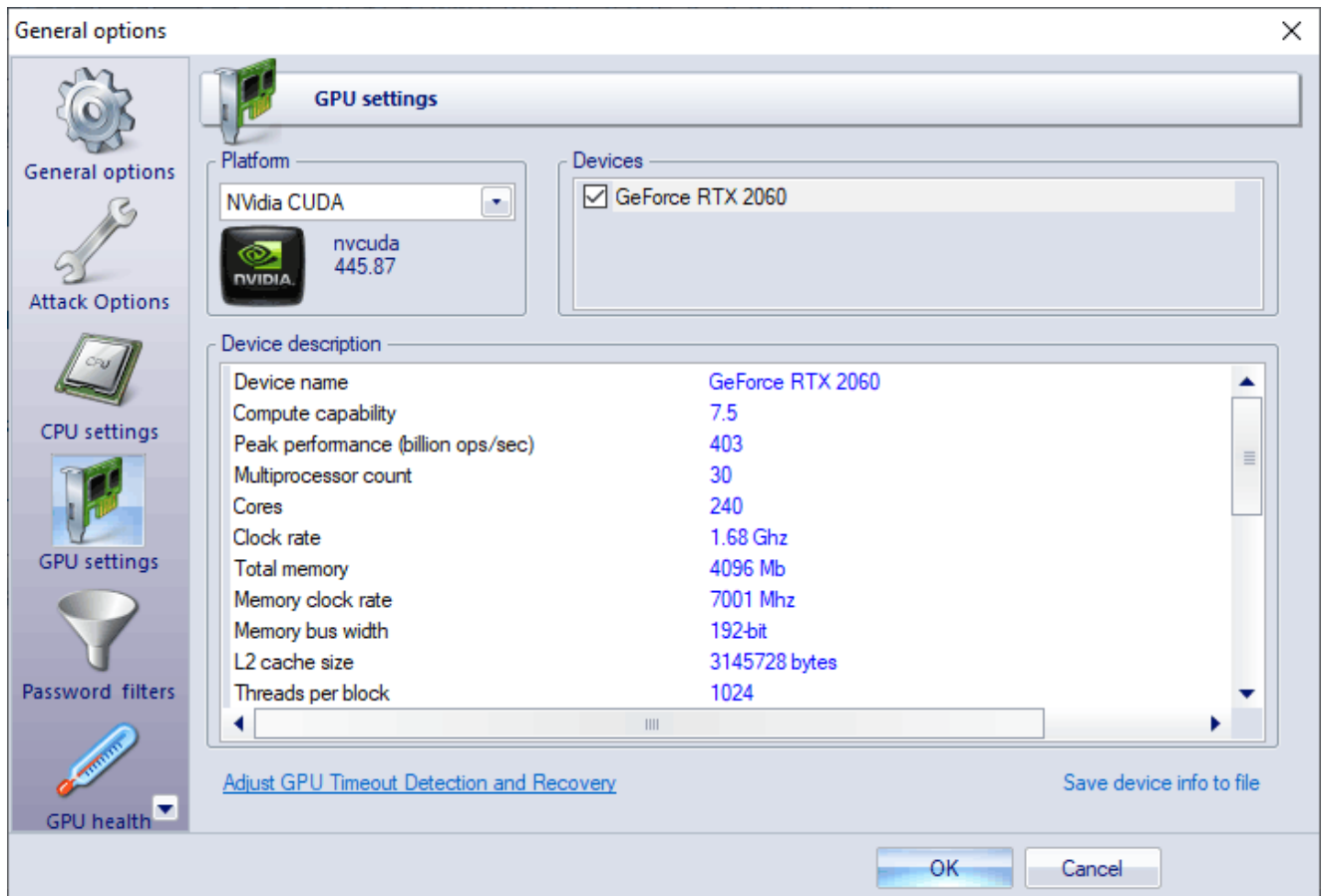
CPU



Wireless Password Recovery
X86, MMX, SSE2 AVX2.

2.8.1.4

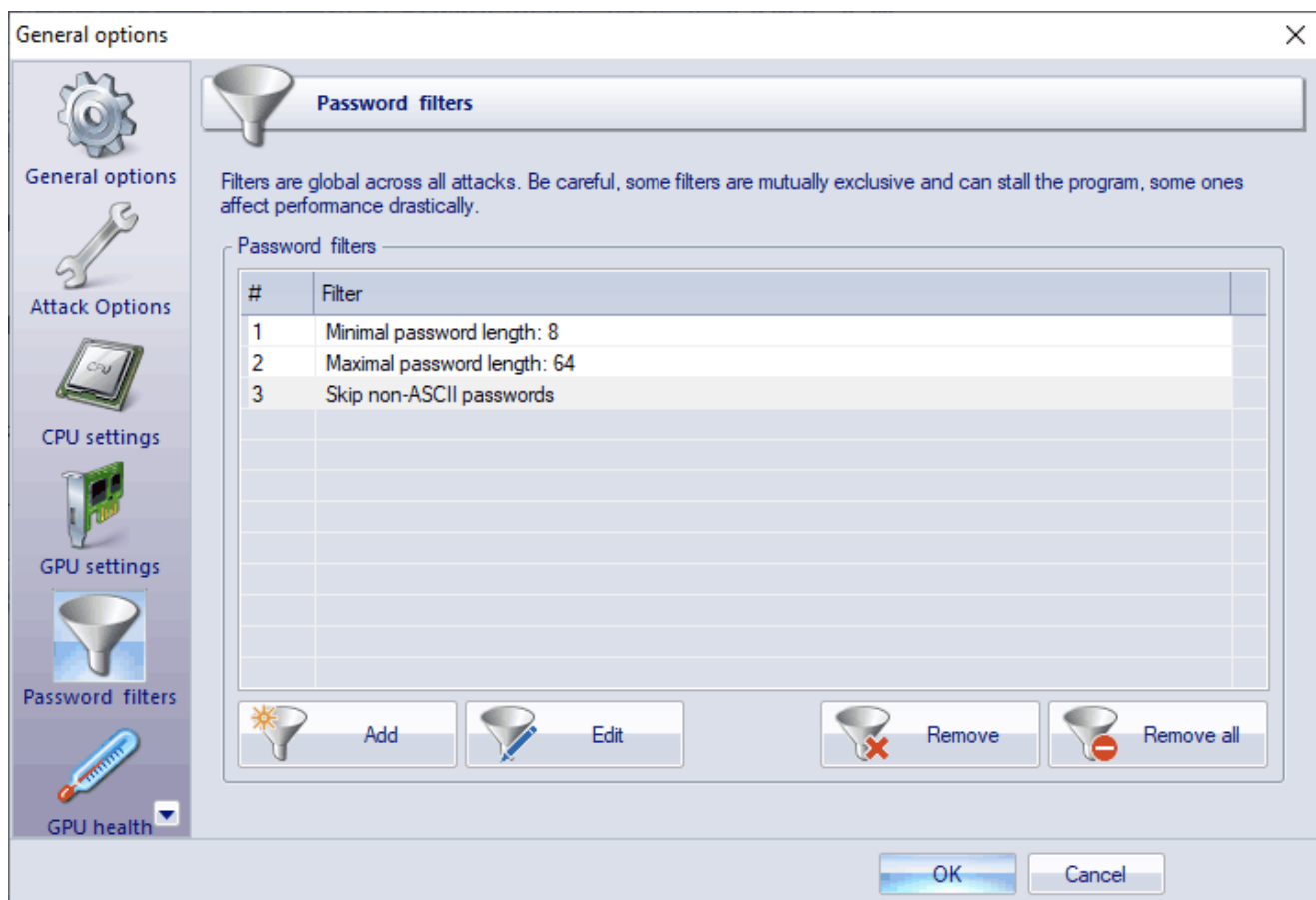
GPU



GPU,

255

2.8.1.5



	<p> . , '8', : 'madam', 'qwerty', '1234567'. </p>
	<p> , '5', : 'camaro', '12345678', 'qwerty'. </p>

-ASCII	ASCII
ASCII	ASCII

	: '123', '12345q', 'zaq1xsw2'.
	: '123!@#', 'give-me', 'pa\$\$word'.
	: 'Hello', 'q12345'.

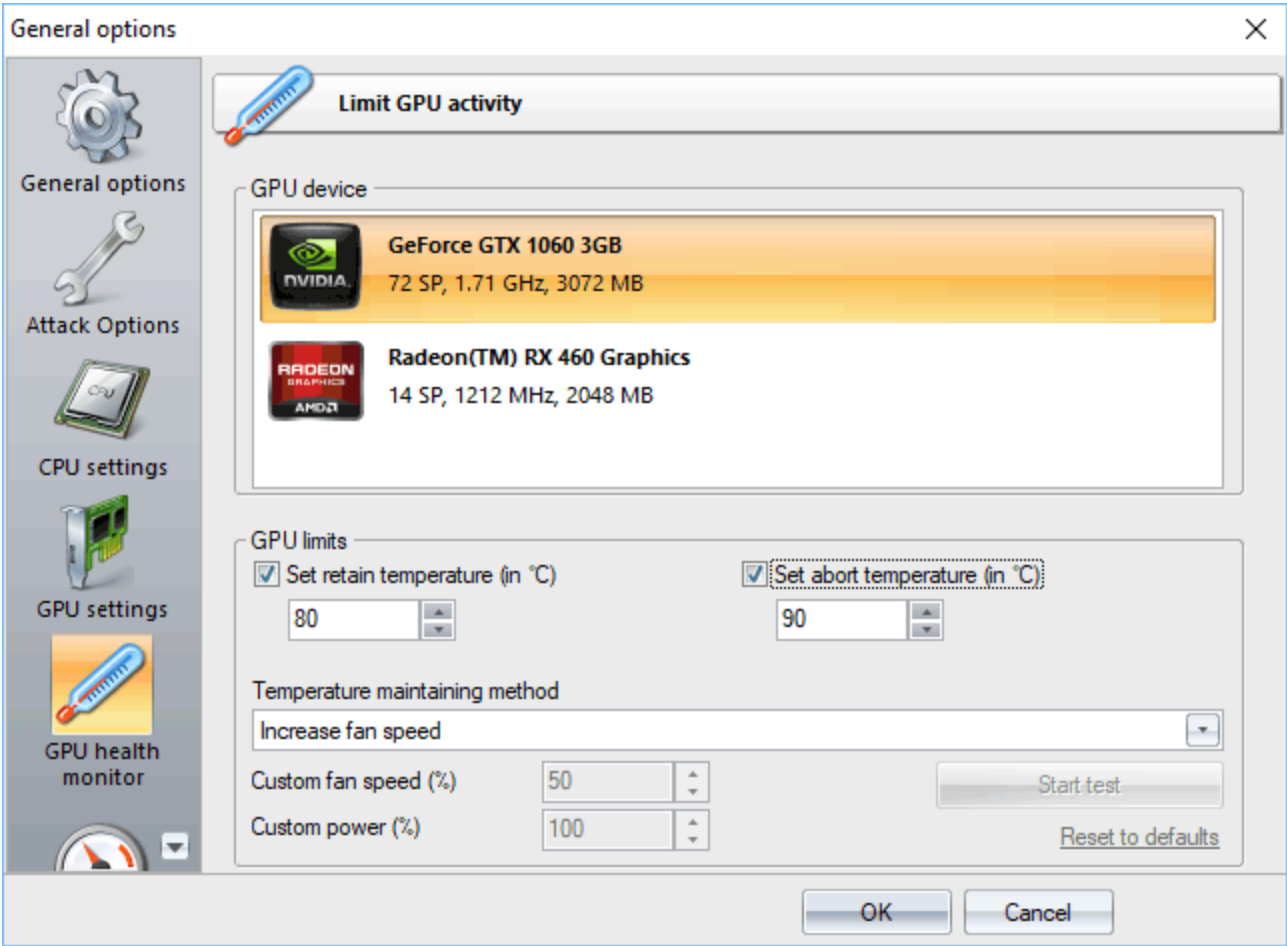
	'ads', : 'dad', 'baby', 'sad', 'octopus'.
	'adms', : 'madam', 'adamas', 'sam', 'mad'.
	'123', : 'tank4567', 'doitrightnow', 'takethat'. : 'coolcat123', 'winter1998', 'myfriend3'.
	'123', : 'tank124', 'doitnow3', 'takethat'. : '123321', '112233', '123123123'.
	'\$#@!', : 'test!@ #\$', '123abc'. : 'lqwerty', '#EDCVFR\$' '\$tation'.
	'123', : 'camaro', '12345678', 'lqwerty'. : 'myfriend654321', 'goodgirl2', 'testtest3'.
	(1). 'abc' 3, : 'break', '87654321', '1by1'. : '1abc123', 'crackme'.
	0..9, : '123summer', '0gravity', '1ongday'.
	a..z, 'motherlove', 'gravity', 'test'. 'day3', 'loveyou8', 'TEST'.

	<p> A..Z 1, : 'Dayout3', 'LoveYouDan', 'TEST'. - : 'homeuser', 'password', 'cruel'. </p>
-	<p> '2' 0..9, : 'qwerty', 'bemybaby1', 'local'. - : '12345678', 'password123', 'c00l', 'm3gad3a7h'. </p>
-	<p> '2' 0..9, : '12345678', 'takein123', '1class2020'. - : 'pass12', 'justbeme', 'm3gad3ath'. </p>

	<p> 'adam', : 'madam', 'adamas', 'adam123', 'adam!'. </p>
,	<p> 'tak', : 'stack', 'takethat', 'takataka'. </p>
- ()	<p> '2', : 'grooovie', '123121', 'paranormal'. </p>
-	<p> (. .) '2', : 'grooovie', '01112013', 'Garrage', '88889999'. </p>
- ()	<p> '2', : 'qwer', 'fghjks', 'mother'. : 'takethat', 'asdsa', 'qwerw', 'baby', 'qazqqasd'. </p>
-	<p> (. .) '2', : 'awert', 'asda', 'a4a4'. - : 'password', 'asdd', 'hello'. </p>

2.8.1.6

GPU



GPU,

GPU

!

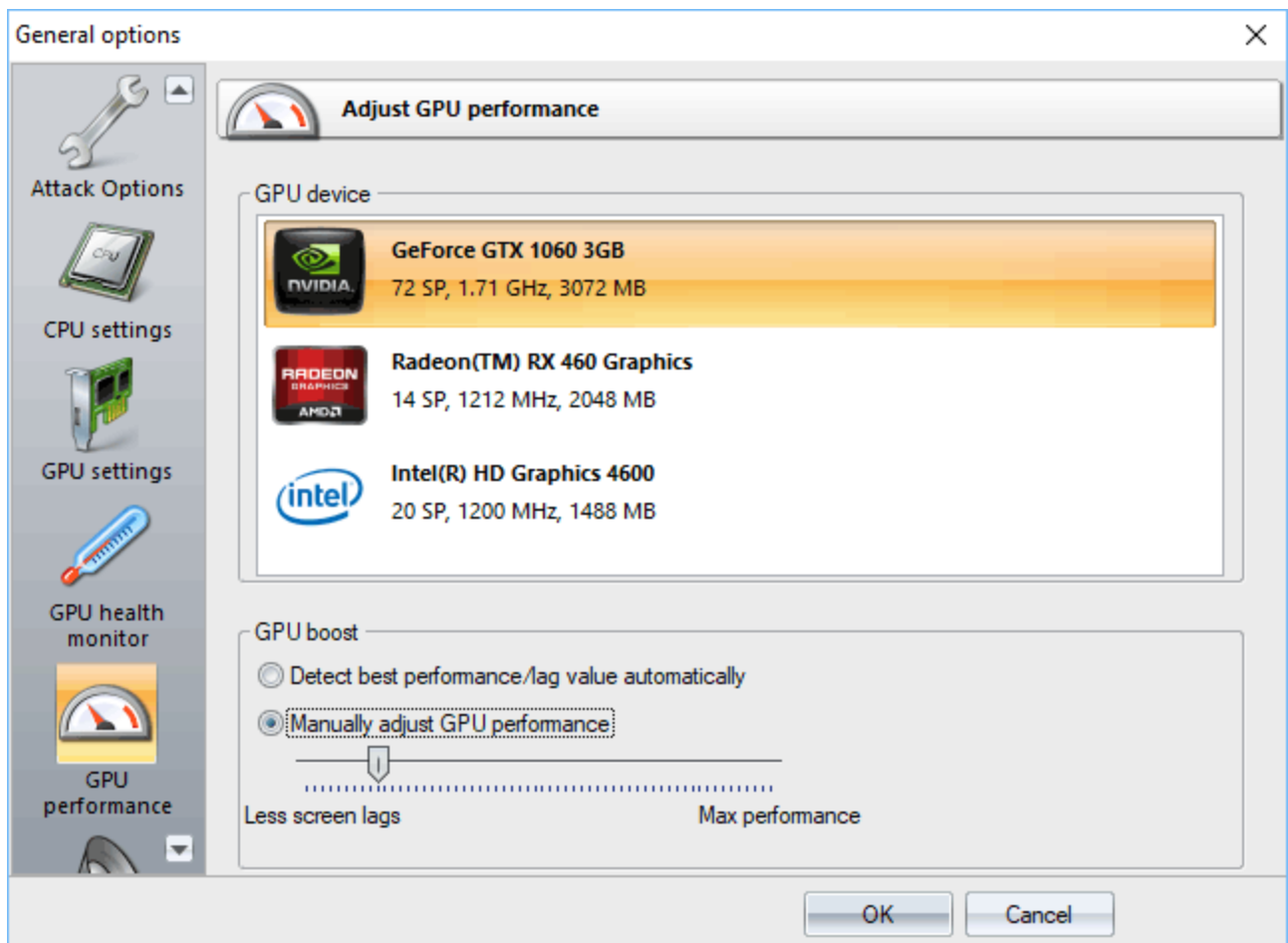
AMD

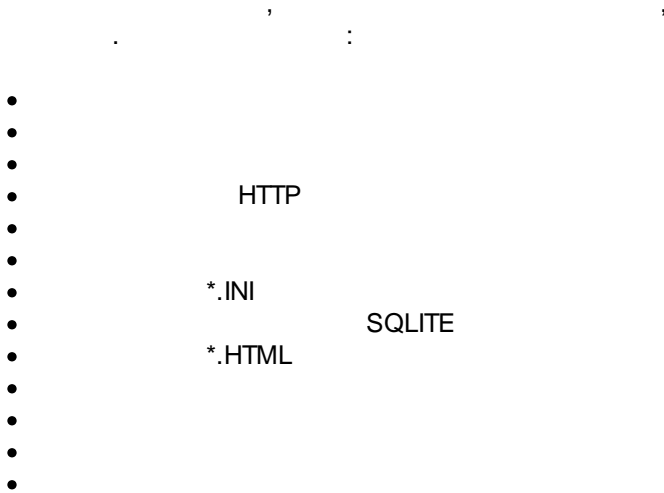
BSOD.

Radeon,

2.8.1.7

GPU

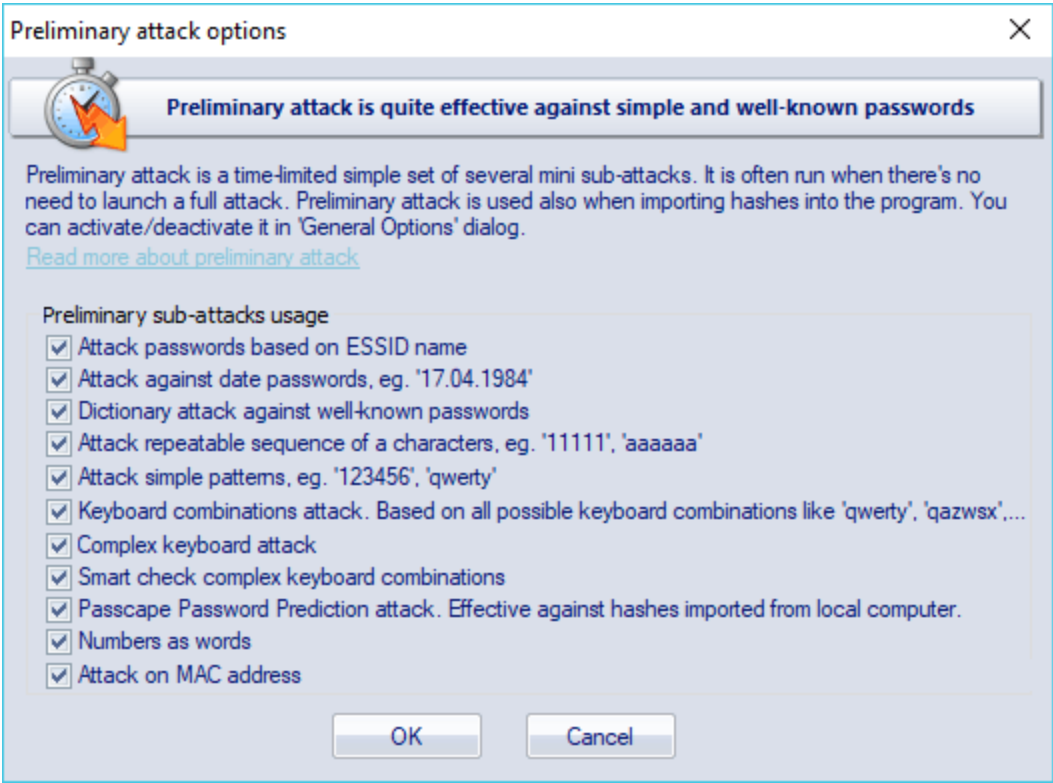


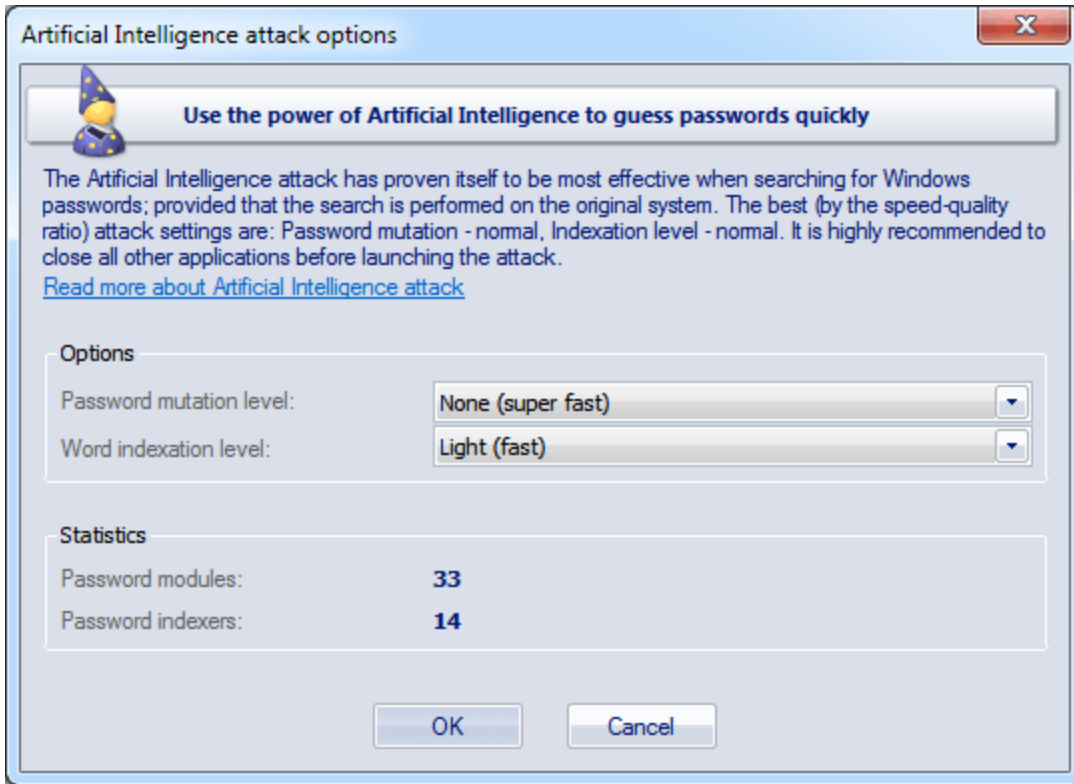


2.8.2
2.8.2.1

(Passcape Software)

5-10





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3

4

33

- Light:Light.
Normal Deep.

2.8.2.3

(fingerprint attack) -

common.pcd,
(Online dictionaries).

(!)

**c
r
a
z
y**

cr
ra
az
zy

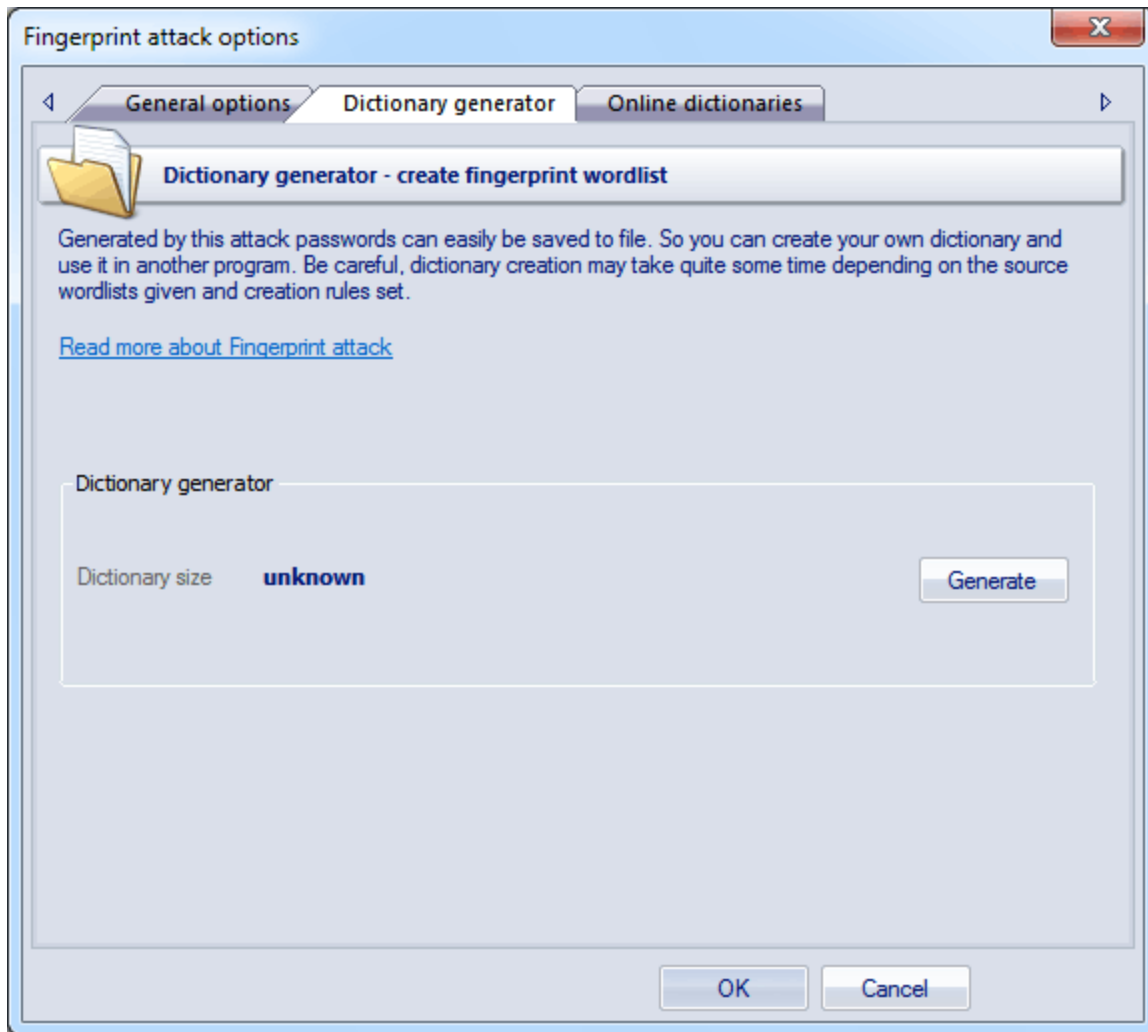
**cra
raz
azy**

**craz
razy**

$$5+4+3+2=14$$

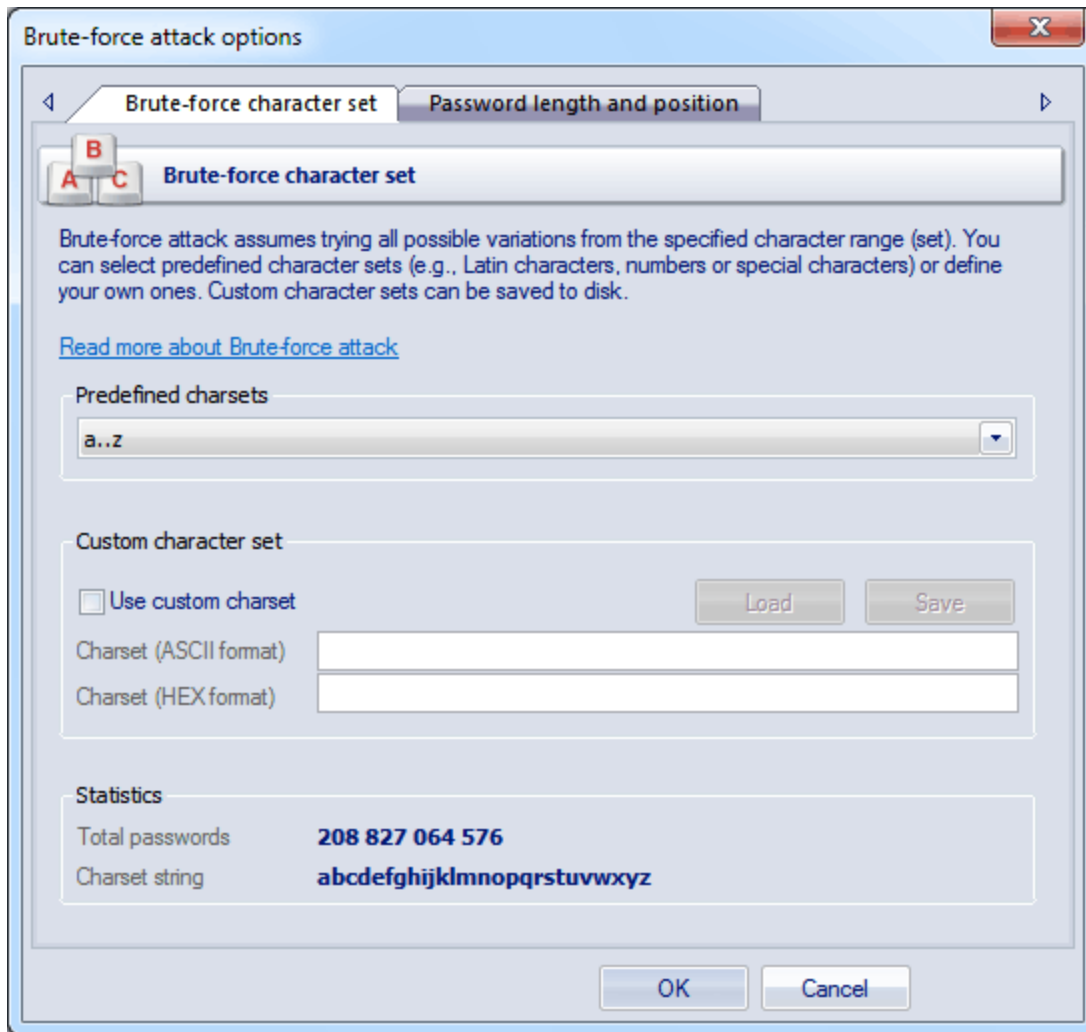
Maximize efficiency when generating fingerprints,

- Use PPP engine to generate additional passwords -
- Use keyboard and frequently use sequences -
- Use dates -
- Use numbers and common sequences -



[illegible]

208 827 064 576

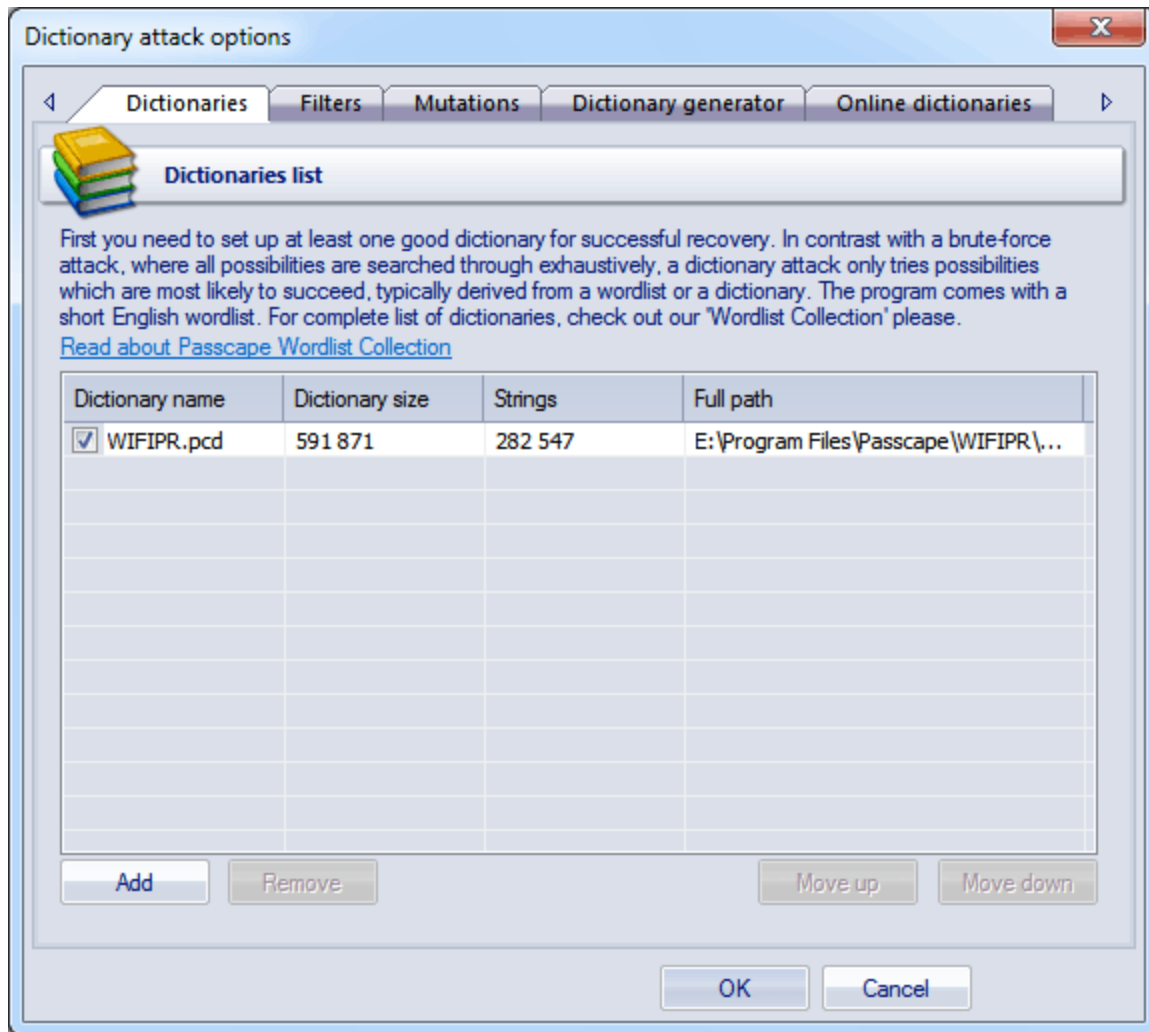


ASCII,

8

WPA-PSK.

2.8.2.5



ASCII, UNICODE, UTF8, RAR, ZIP,
Passcape Software.

PCD,

CD,

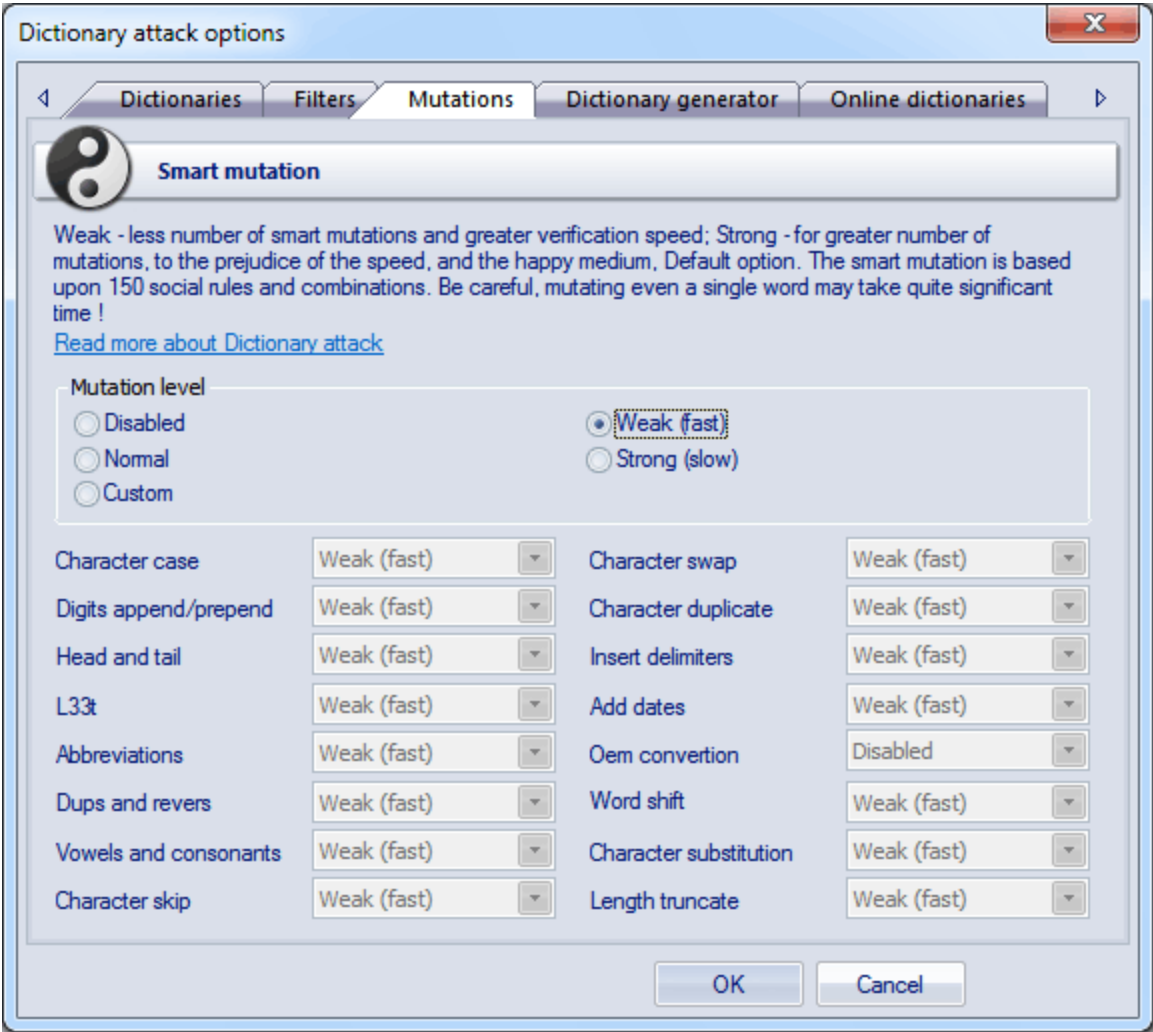
online

, secret - Secret - s3cr3t - secret123

Passcape.

250.

16

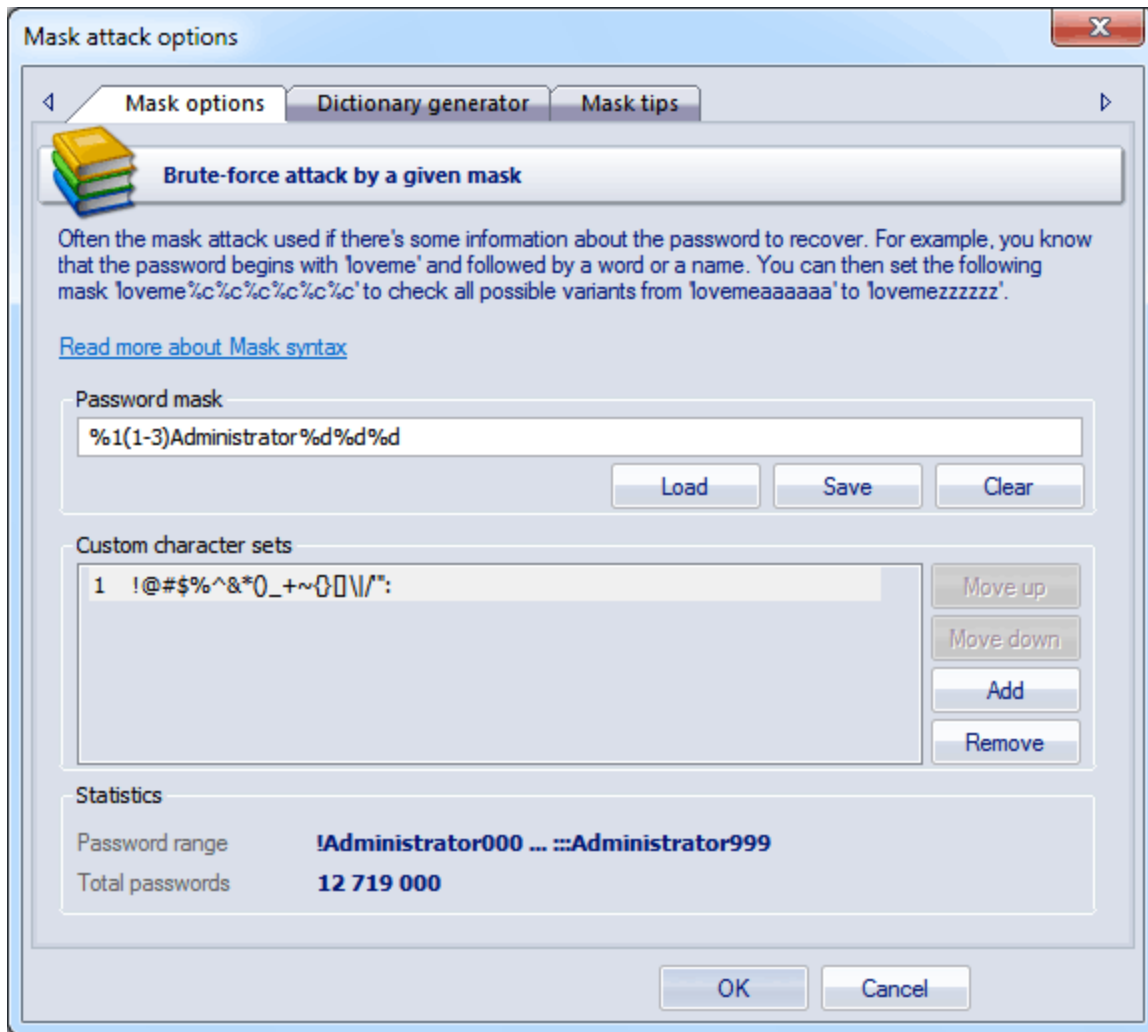


		(
		'password')	
Character case		Password, PassworD, PaSsWoRd	(Strong)

[illegible]

2.8.2.6

qwerty, , 6 12 12



%c%c%c%c%c%cqwerty.
aaaaaaqwerty zzzzzzqwerty.

secretqwerty,

(),

secret%d(1-100),
Password Recovery

100

(secret1, secret2 .. secret100). Wireless
:

- %c (a .. z). 26
- %C (A .. Z). 26
- %# (! .. ~). 33
- %@ (!@#\$%^&*()-_+= space). 15
- %? ASCII 32 127.
- %d (0..9).

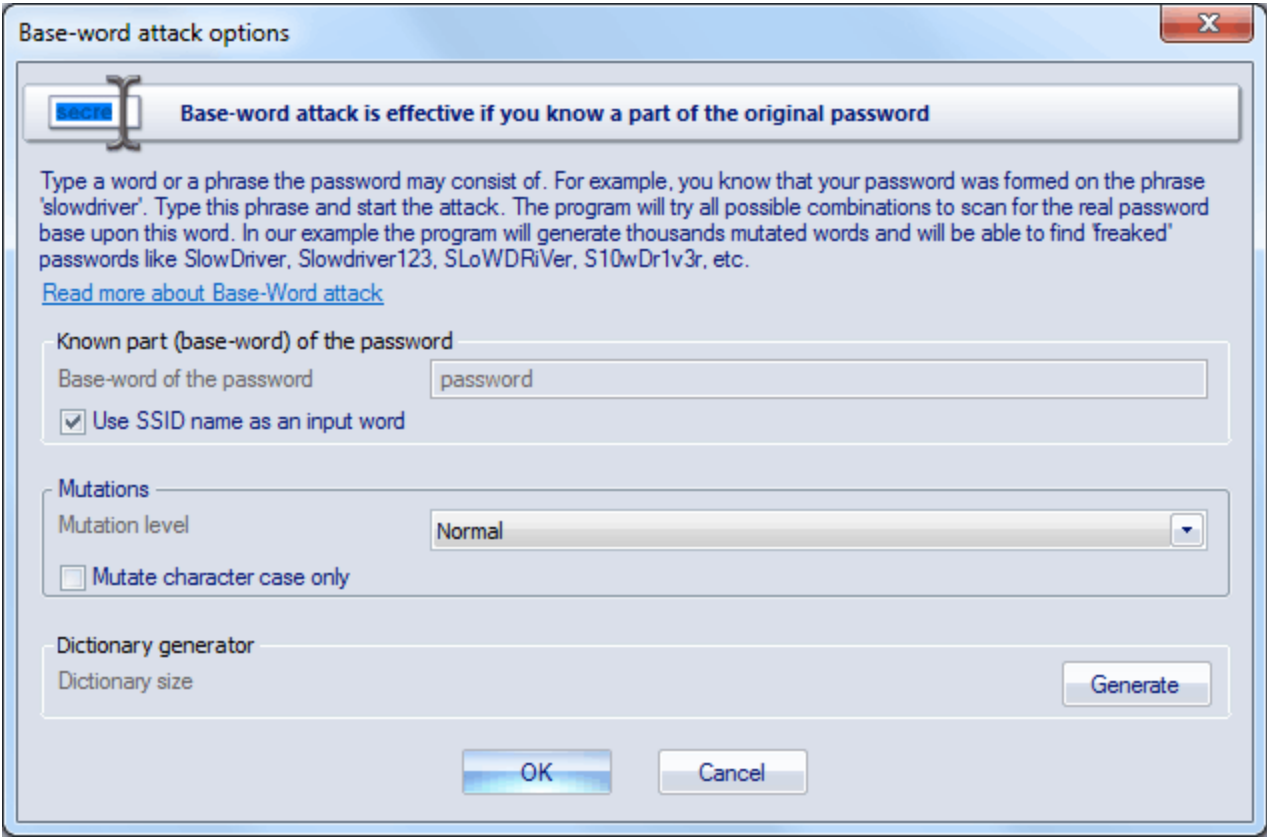
```
• %d(x-y)          x y
• %r(x-y)          ASCII x y
• %r(x1-y1,x2-y2...xn-yn)      ASCII
                                ( 127)
                                OEM
                                DOS
• %l[2..9]          1..9
• %l[2..9](min-max)      ( min max)
• %w(wordlist)        wordlist ( )
                        %r(160-
175,241-241,224-239)%l(1)%l(1)
33*33*33=35937
test%d - test0 .. test9, 10
test%d(1980-2007) - test1980 .. test2007, 28
test%r(48-57,97-122) - test0 .. testz, 36
admin%l(1-5) - admina .. adminzzzzz, %1 - 1 (a..z)
%1%1%1pin%2%2%2 - aaapin000 .. zzzpin999, %1 a..z, %2 -
0..9
#w(c:\dic\names.dic)%d - names.dic
```

2.8.2.7

```

1  (
2      ,
3      -
4      ,
5      ,
6      'S10wDr1v3r'.
7      -
8      ,
9      'slowdriver'.
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```



2¹⁰=1024 , 2ⁿ , n - , 'slowdriver'
(
).
'Use document name as an input word'
SSID.
15-16 ,

2.8.2.8

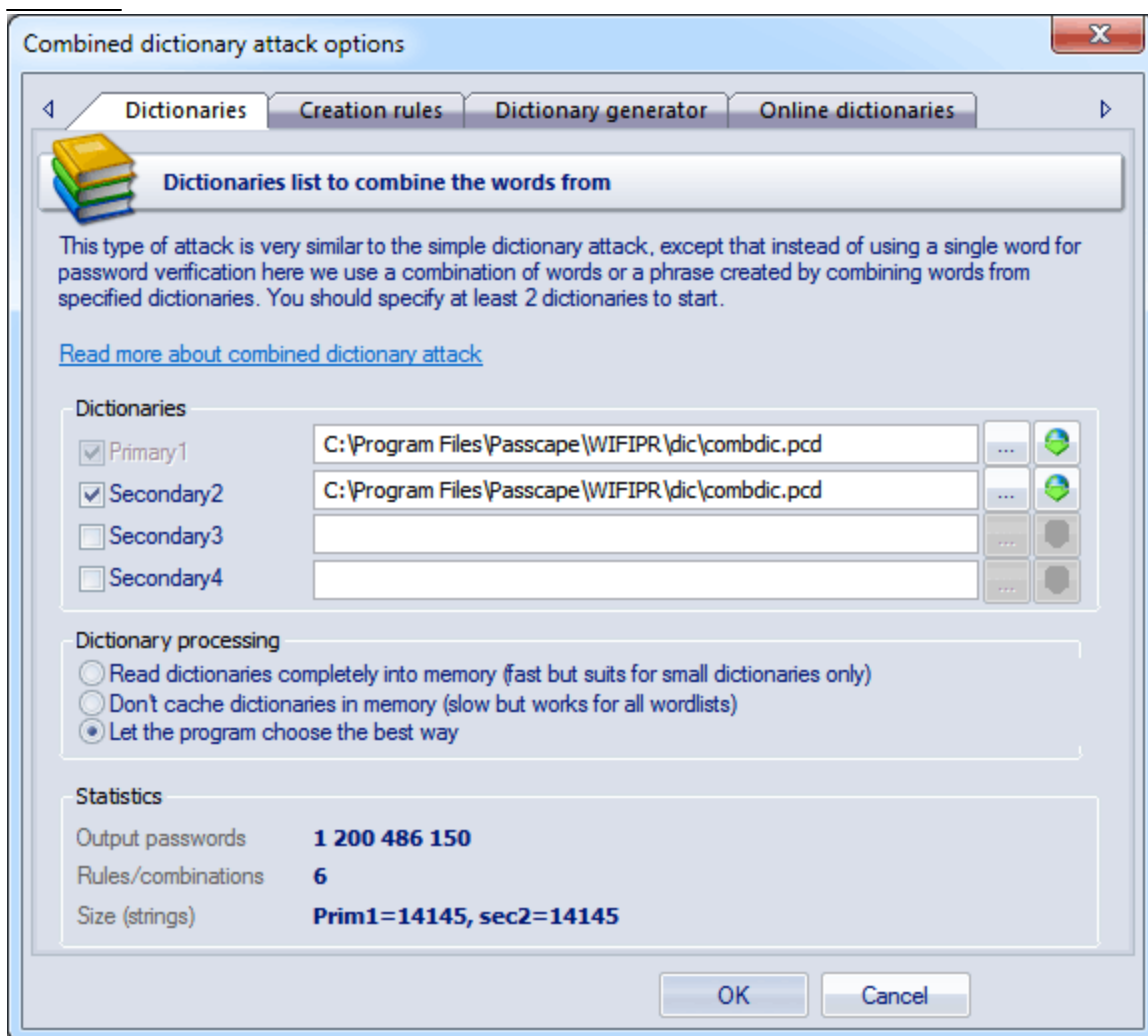
(Passcape Software) -
2,3 4 .
:
: jump, jumper, jumped, jumping.

4-

4-

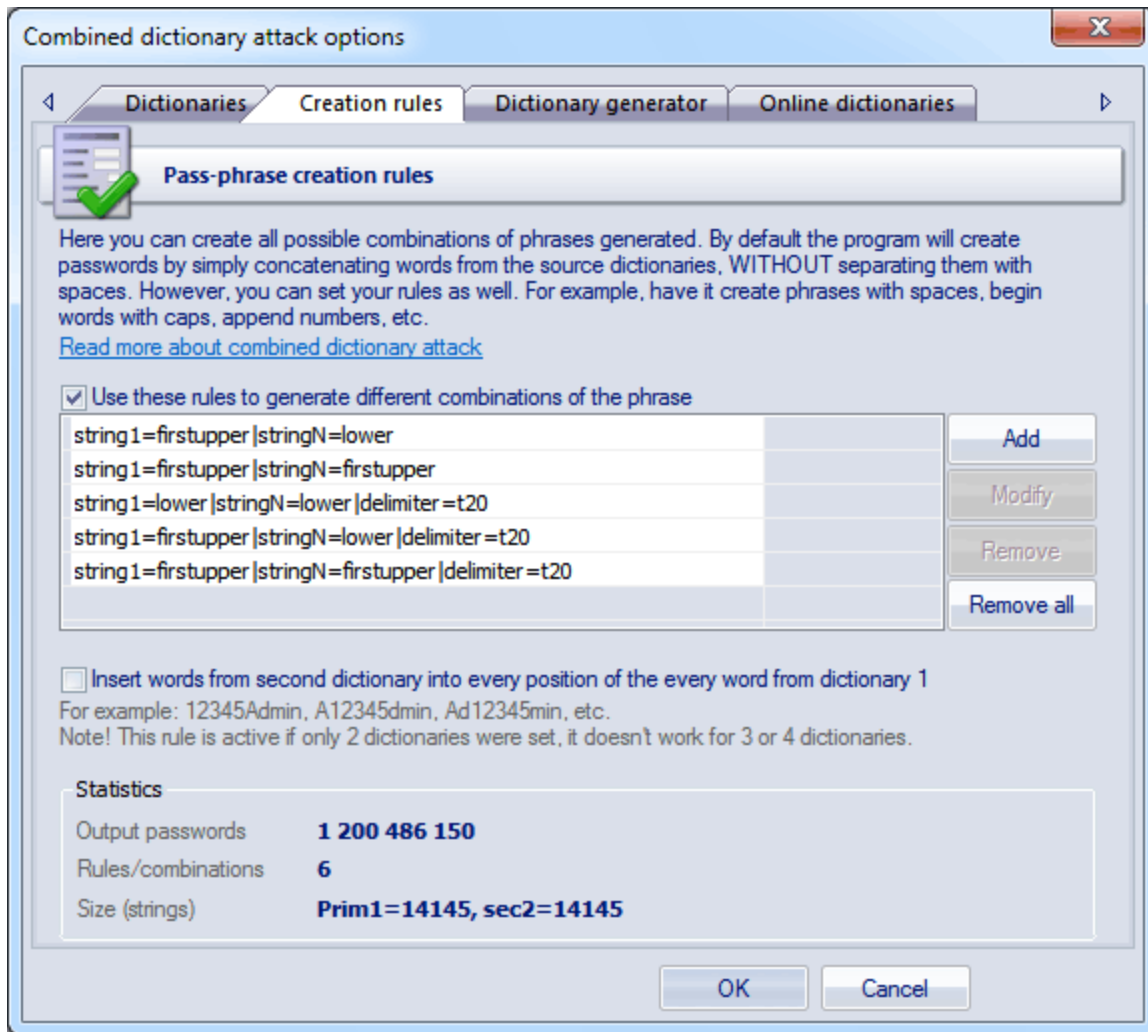
3 4

Passcape.



```
1.      ,      : action, bad      computer.
      : primary dictionary      additional dictionary1.
      ,
      (
      ):
"actionaction", "actionbad", "actioncomputer"
"badaction", "badbad", "badcomputer"
"computeraction", "computerbad", "computercomputer".
9      .
```

```
2.          : action, bad    computer.          -          : date, eagle, fail.
          ,          :
"actiondate", "actioneagle", "actionfail"
"baddate", "badeagle", "badfail"
"computerdate", "computereagle", "computerfail".
```

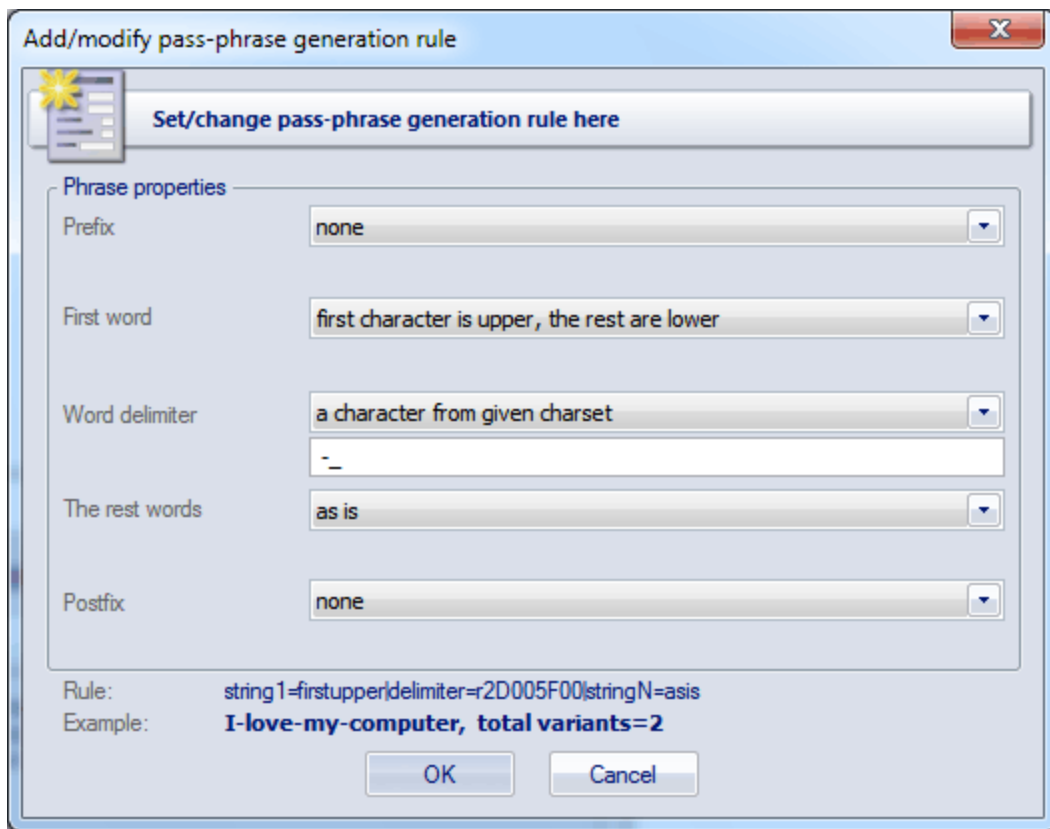



my computer mycomputer.

Admin, - 12345,
 12345Admin
 A12345dmin
 Ad12345min
 Adm12345in
 Admi12345n

COMPUTER, my-computer

: Mycomputer, MyComputer, MY



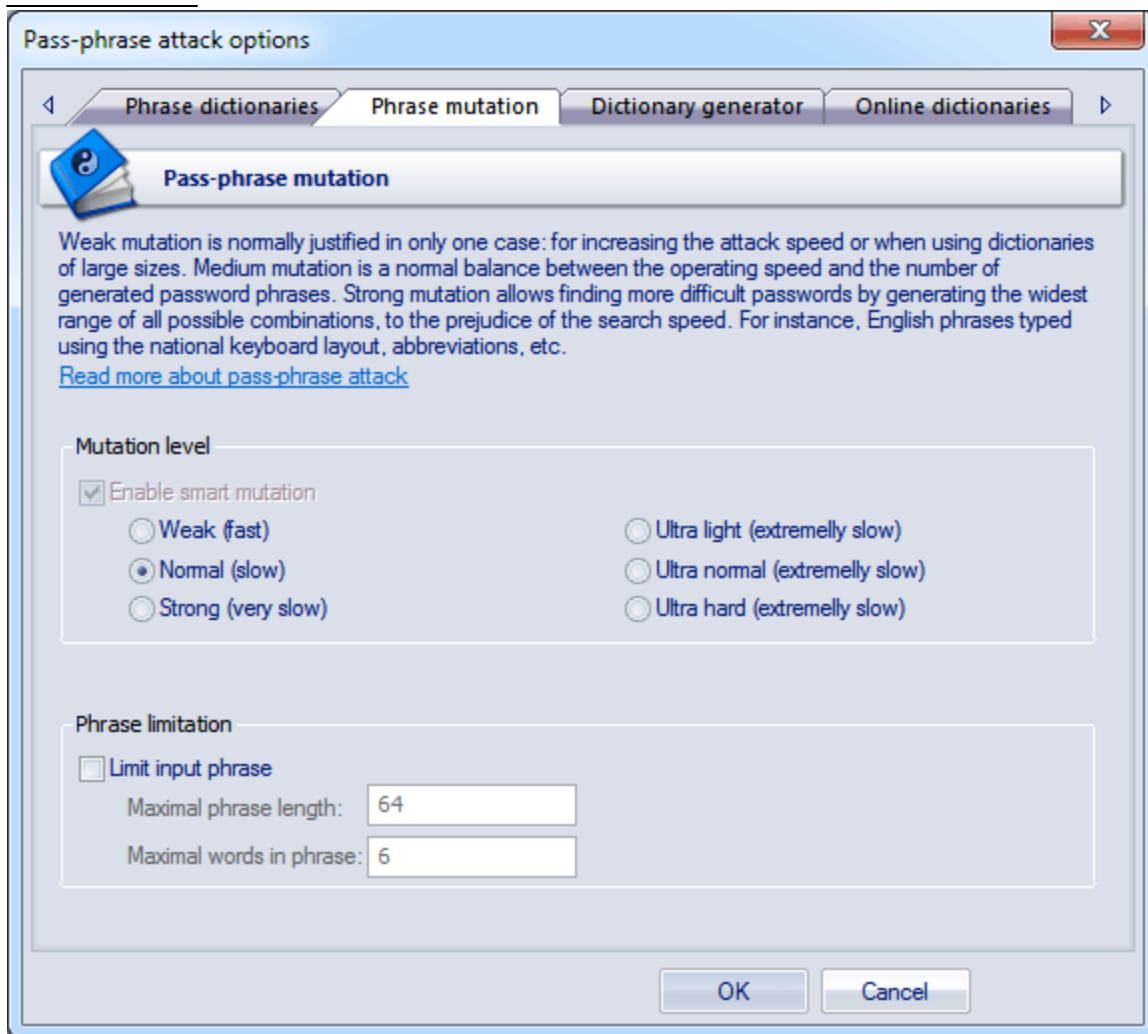
1. `-`, `0 9`, `"1aaabbb" .. "9aaabbb"`.
: `"0aaabbb"`,
2. `:`, `-`.
3. `"aaabbb"`, `"aaaccc"`, `"aaaddd"`.
: `"L"`.
4. `.2,`
5. `'?' ' ?'`,
,



2.8.2.9

(Passscape Software)

Passcape,



- Weak -
- Normal - Weak,
- Strong - Normal

- Ultra light - Weak Weak



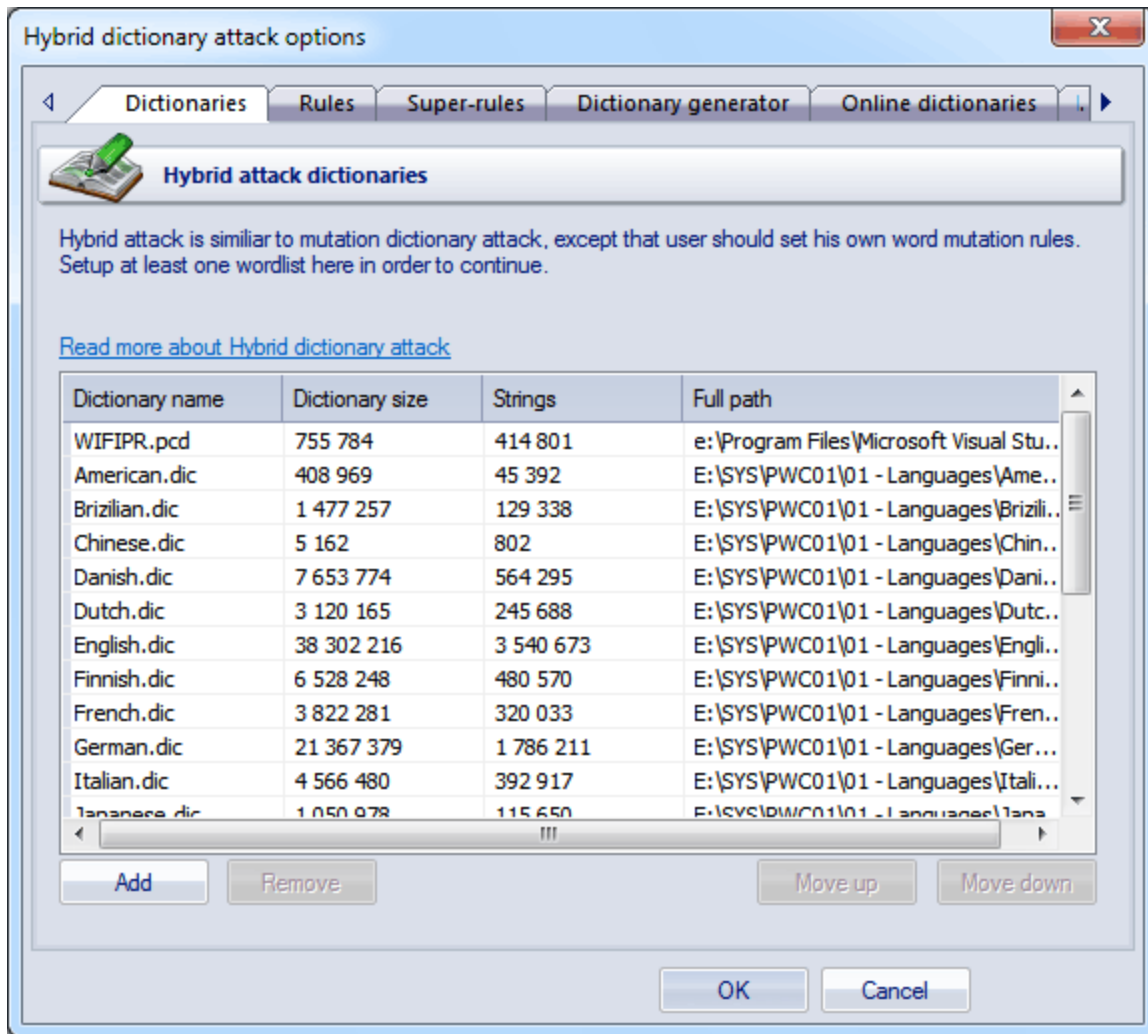
() , 2, ' 8 B, O 0 . .

, , .

7 :

- 1. -
- 2. -
- 3. - - , ()
- 4. , ,
- 5. -
- 6. -
- 7.

UTF8, UNICODE, PCD, RAR, ZIP. : ASCII,



, , , english_words.ini 3000
ASCII

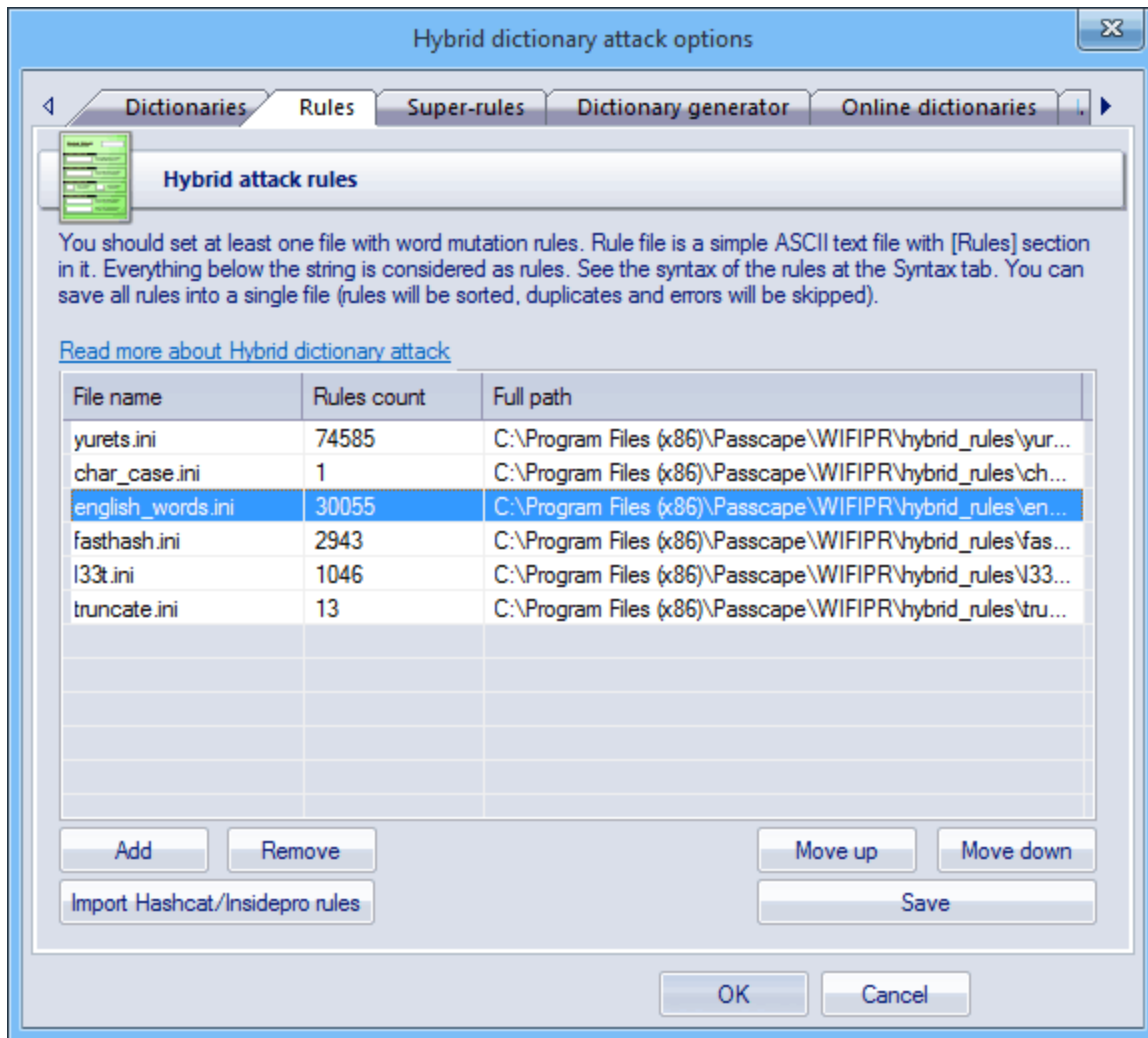
[Rules]. , , ,

, , , 'password'

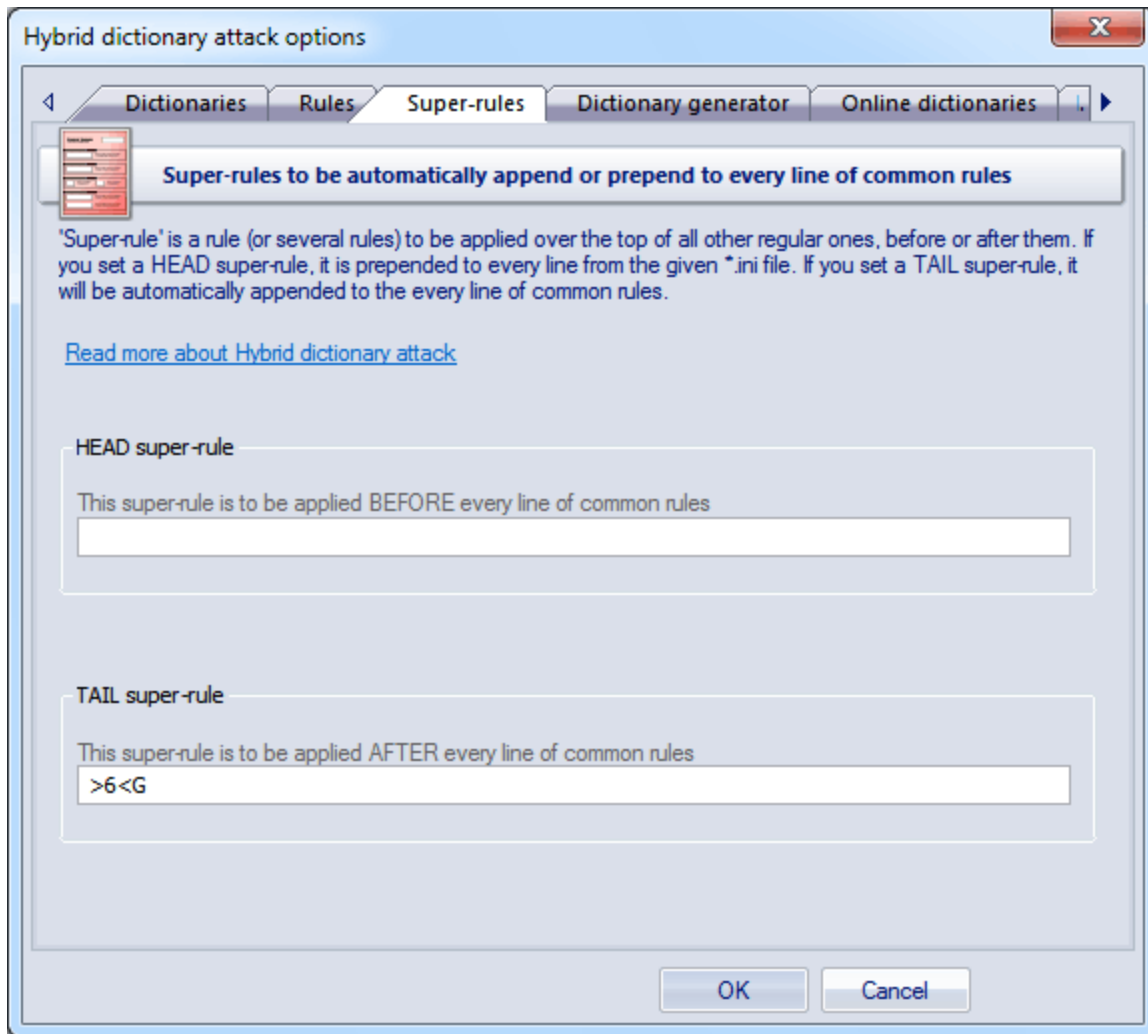
'@pc\$a\$b\$c', 256 'Asswordabc'.

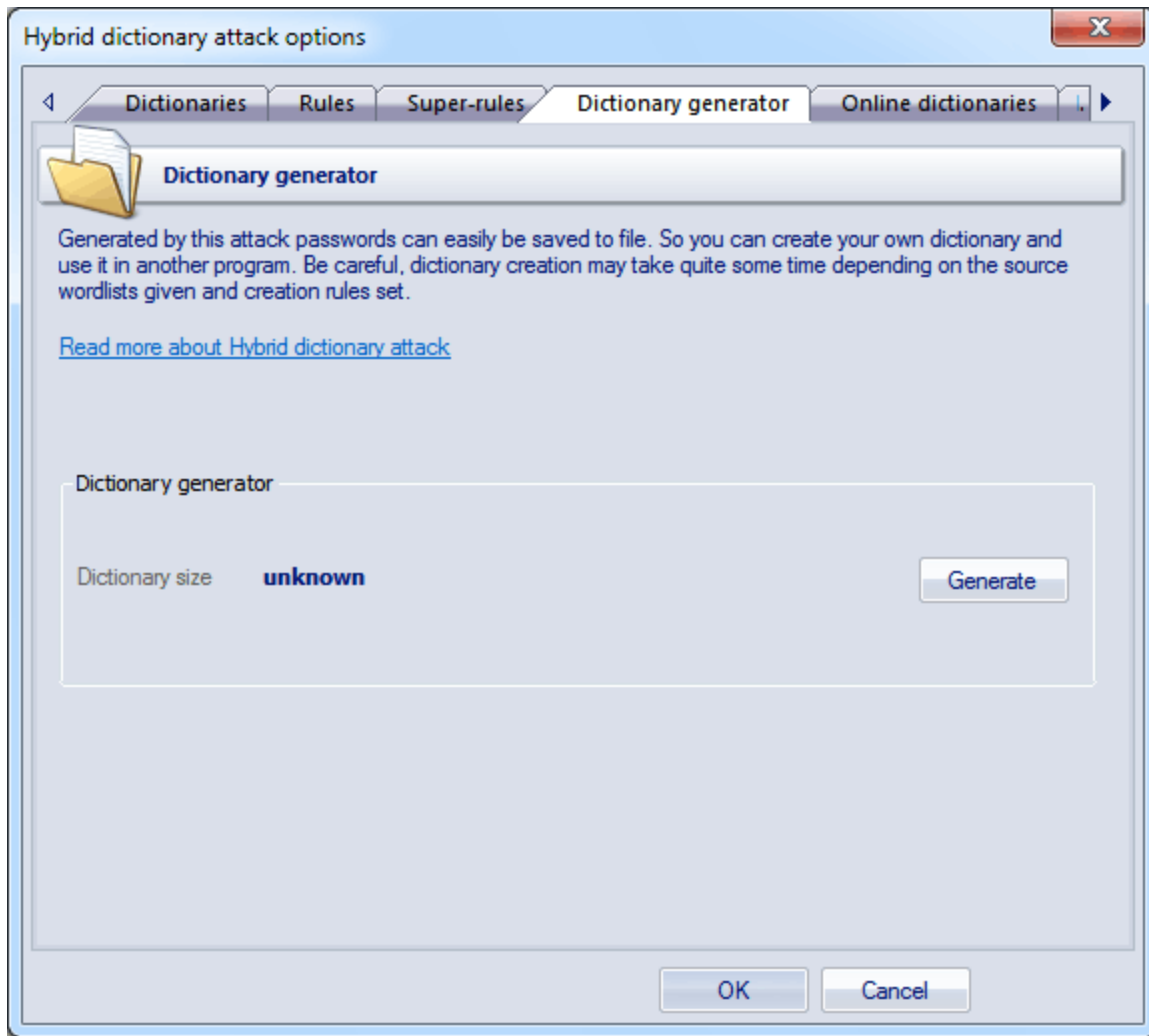
RWP ,

JohnTheRipper, HashCat, InsidePro

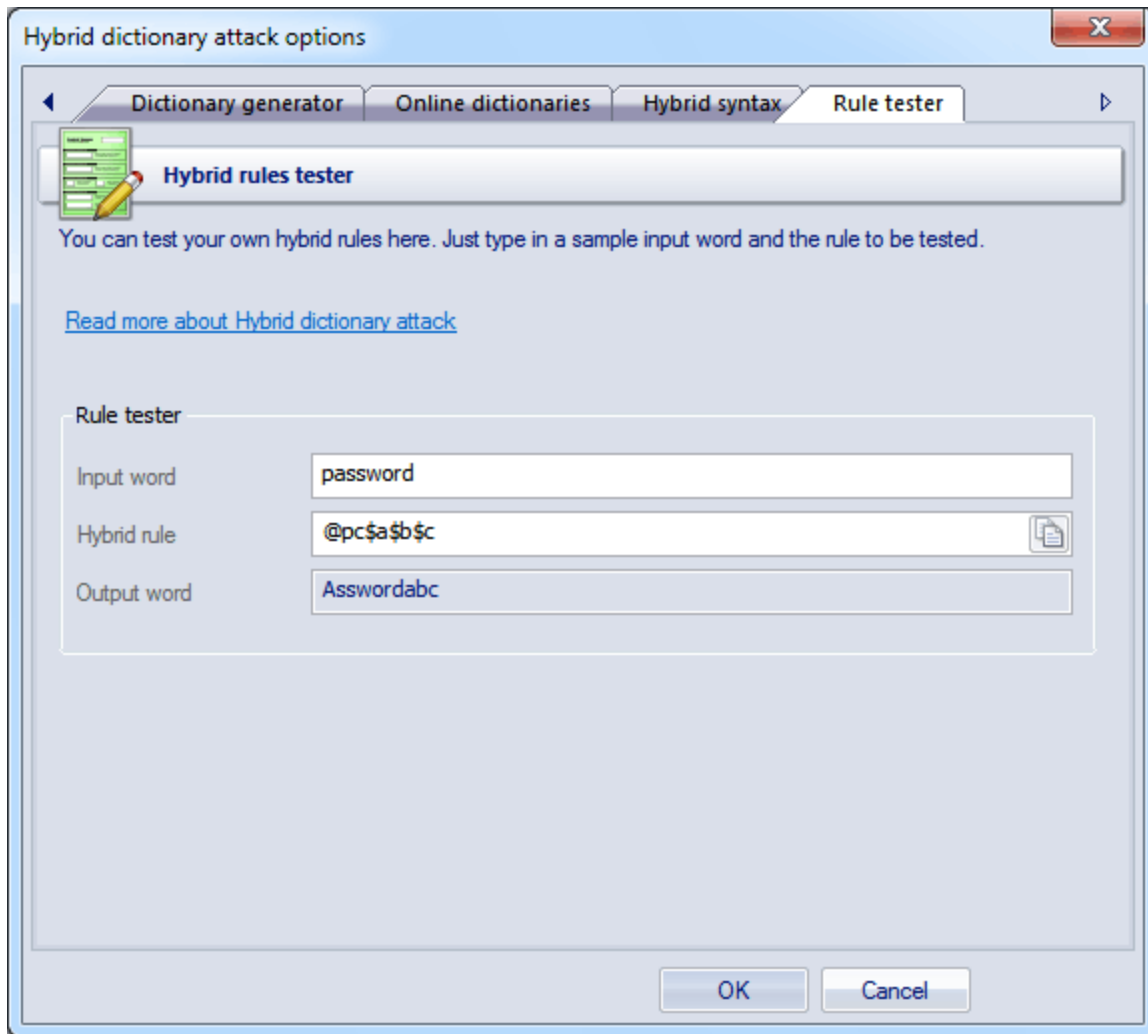


- , , (,
 , , , ,
), , ,
 , , , ,
 'asa4a8', '/csc(' , '/csc(a8', , , 'a8', , '/asa4' , l33t.ini
 '>8<G', , , 8 16 ,
 , , , ,
 *.ini , , : ,
 'aN' , ! , : ,





Passcape



(- 256 256 .

[Rules] #

, , N M 0. 9 A..Z (A=10, B=11 . .).

, 'C 12 .

aN

: ?iN[C], ?i[C], ?oN[C], ?o[C]

?iN[C], ?i[C], ?oN[C], ?o[C]

digits - 0123456789

loweralpha - abcdefghijklmnopqrstuvwxyz

upperalpha - ABCDEFGHIJKLMNOPQRSTUVWXYZ

alpha - abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ

special - !@#\$%^&*()-_+=~`[]{}|;\:;'"<>.,?/ "

loweralphnumeric - abcdefghijklmnopqrstuvwxyz0123456789

upperalphanumeric - ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789

alphanumeric - abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789

printable - abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789!@#\$%^&*()-_+=~`[]{}| \;'"<>,.? /

:	:	pass word	password	
{	{	pass word	asswordp	
}	}	pass word	dpasswor	
[[pass word	assword	
]]	pass word	passwor	
c	c	pass word	Password	
C	C	pass word	pASSWOR D	,
d	d	love	lovelove	
f	f	love	loveevol	()
k	k	pass word	gfhjkm	(-) 'password' 'gfhjkm'. ,
K	K	pass word	passwodr	
l	l	pass word	password	
q	q	baby	bbaabbyy	
r	r	pass word	drowssap	
t	t	Pass Word	pASSWORD	()
u	u	pass word	PASSWOR D	
U	U	my own key	My Own Key	(,)
V	V	pass word	PaSSWoRD	, -

		.	.	
v	v	pass word	pASSWoRD	, -
'N	'4	pass word	pass	N
+N	+1	pass word	pbssword	ASCII N
-N	-0	pass word	oassword	ASCII N
.N	.4	pass word	passoord	N N+1
,N	,1	pass word	ppssword	N N-1. N > 0.
<N				() N
>N				() N
aN				. N
				,
DN	D2D2	pass word	paword	N
pN	p3	key	keykeykey	N
TN	T1T5	pass word	pAsswOrd	N
yN	y3	pass word	paspasword	N
YN	Y3	pass word	paswordord	N
zN	z3	pass word	ppppasswor d	N
ZN	Z3	pass word	passworddd d	N
\$X	\$0\$0\$7	pass word	password00 7	X
^X	^3^2^1	pass word	123passwor d	X
@X	@s	pass word	paword	X
!X				() X
/X				() X
(X				() X
)X				() X
eX	e@	mike @yah oo.co m	mike	, X(X)

		.	.	
EX	E@e.	mike@yahoo.com		X(,)
%MX				() X M
*XY	*15	password	password	X Y
=NX				() N X
iNX	i4ai5bi6c	password	password	X N
oNX	o4*o5*	password	password**rd	N X
sXY	ss\$so0	password	pa\$\$w0rd	X Y
xNM	x4Z	password	word	M N
INX-Y	rl0/-/r	google.com	google.com/	X N, Y. N
INX+Y	rl0.+./r	password.	password..	X N, Y. N
ONX-Y	O0-+p	password	-assword	N Y, X
ONX+Y	O0P+P	password	Password	N Y, X
?iN[C]	?i0[digits]	password	0password.. 9password	[C] N . [C]
?i[C]	?i[special]	password	~password.. password+	[C] . [C]
?oN[C]	?o1[upper alpha]	password	pAssword.. pZssword	N [C]. [C] , .
?o[C]	?o[-=.]	password	-password.. password.	[C]. [C] , : - password, =password, .password, -assword, =asswords, .assword, p-ssword, p=ssword ... password.

hybrid_rules/english_words.ini

:

hybrid_rules/simple_dates.ini -
hybrid_rules/l33t.ini - , password->p@\$w0rd
hybrid_rules/dotcom.ini -
hybrid_rules/numbers.ini -
hybrid_rules/overwrite.ini -

180000

2.8.2.11

Passcape Software,



[+] [-]).

([^] [v]) ,

2.9



2.10

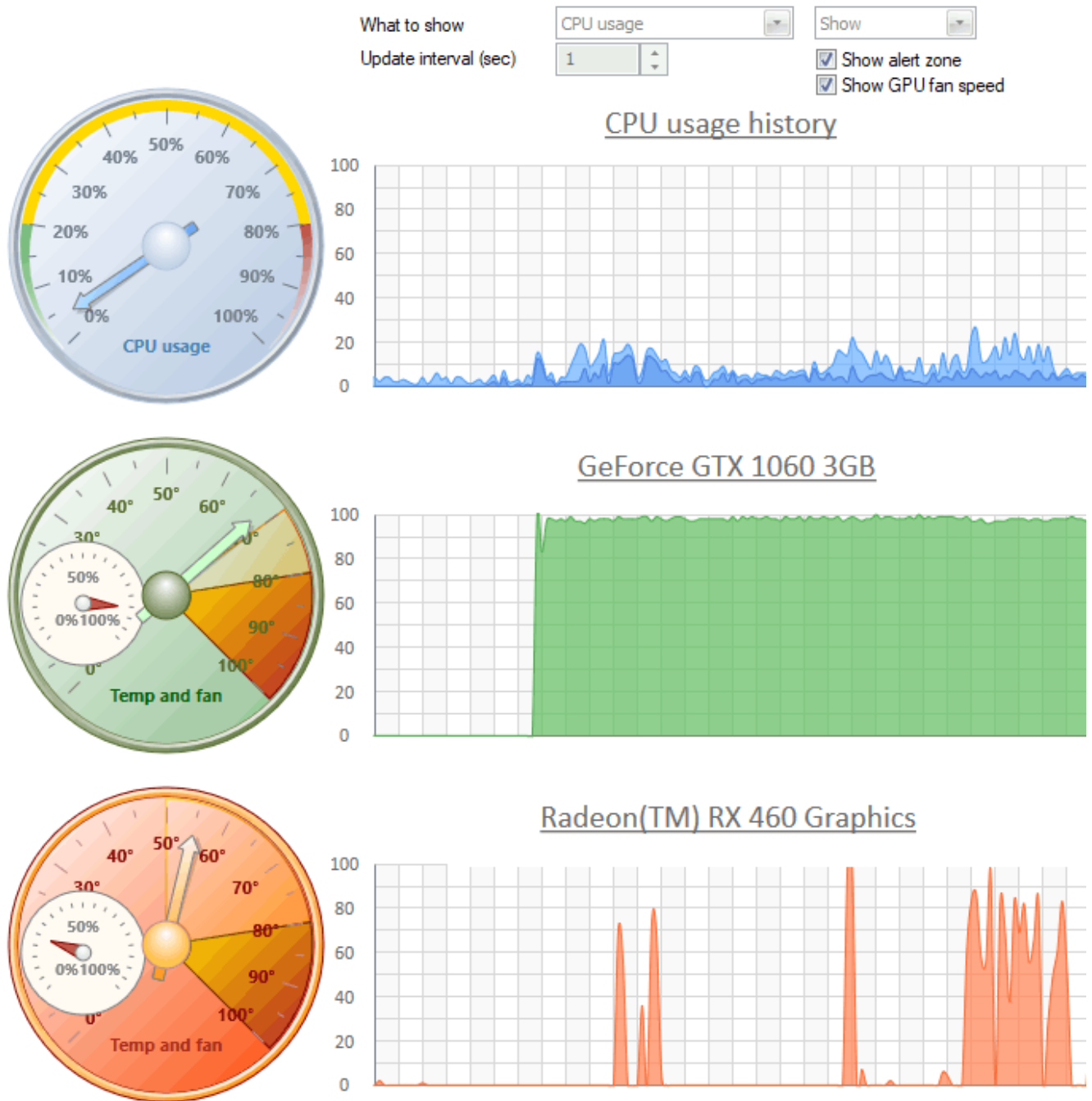


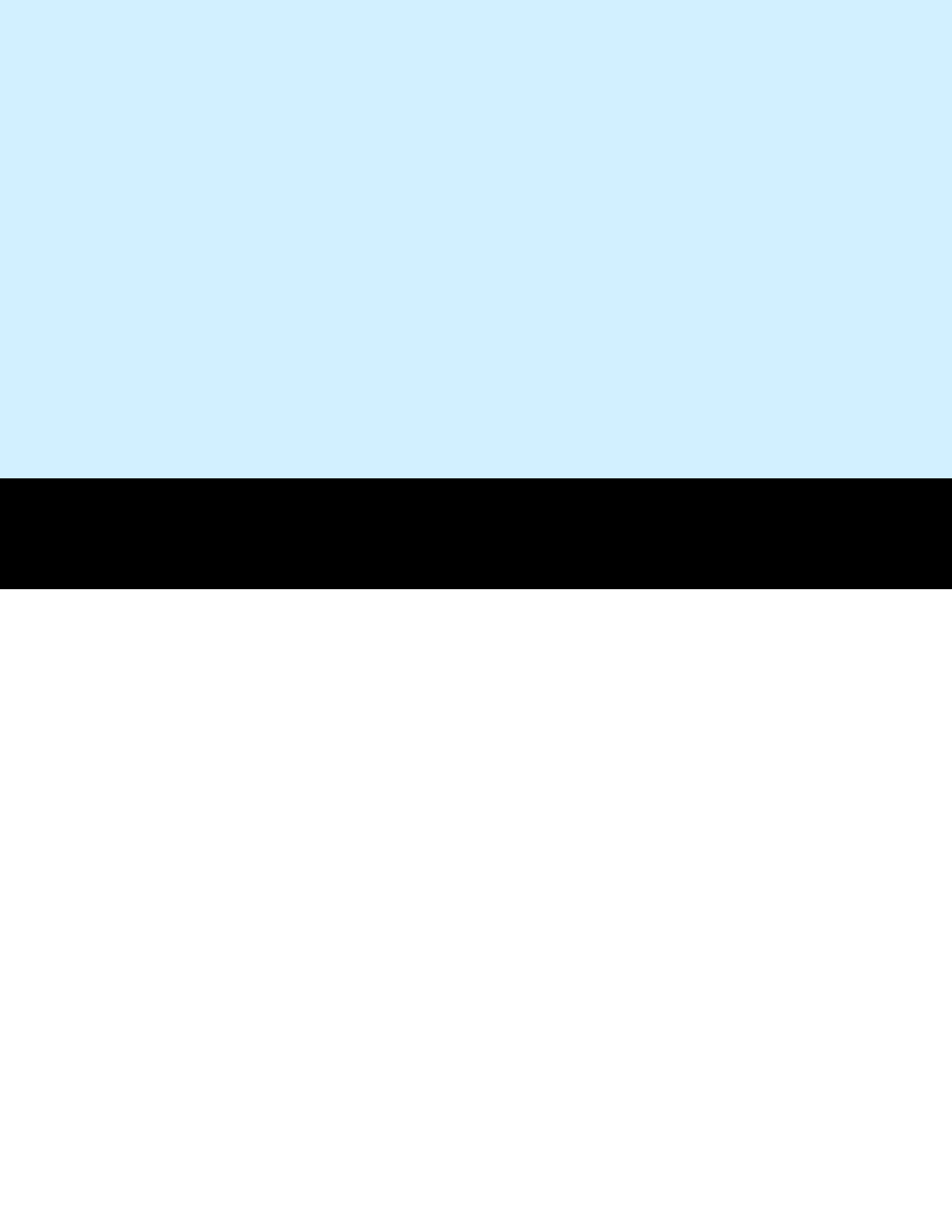
2.11



Wireless Password Recovery

2.12





3
3.1



[Preliminary attack](#) - (Passscape Software)

[Artificial Intelligence attack](#) - Passscape Software

[Dictionary attack](#).

[CD](#).

[Brute-force attack](#).

: 'aaa', 'aab', 'aac'... 'zzz'.

[Mask attack](#).

[Base-word attack](#) (Passscape Software).

150

[Combined dictionary attack](#) (Passscape Software).

'nothing to do'

[Phrase attack](#) (Passscape Software).

[Fingerprint Attack](#). Passscape Software.

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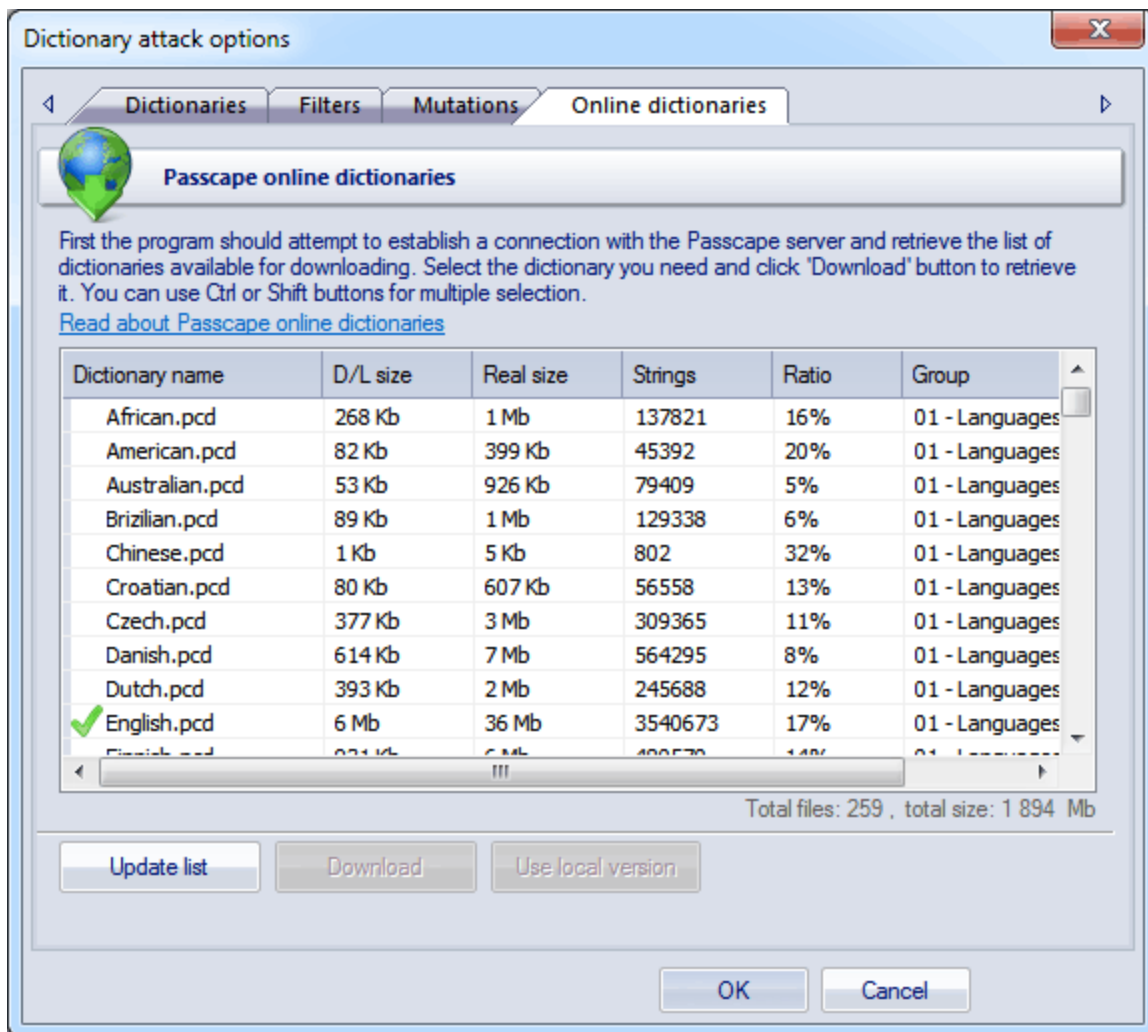
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Q:	Windows	?			
A:		NVidia	Windows		c Windows XP,
	AMD Radeon	Windows Vista.	32- 64-		.

:
: **'Hardware Monitor',** **'What to show'**
: **'Show'** , **'Start'** **'Stop',**
: . GPU ()
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: **NVidia** . ?
: / NVAPI,
<https://developer.nvidia.com/nvapi>
:
: **AMD Radeon** **GPU**
: . ADL.
: , GPU
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: .
: CPU: Options - General Options - CPU Settings, Processor Utilization **0**.

3.4



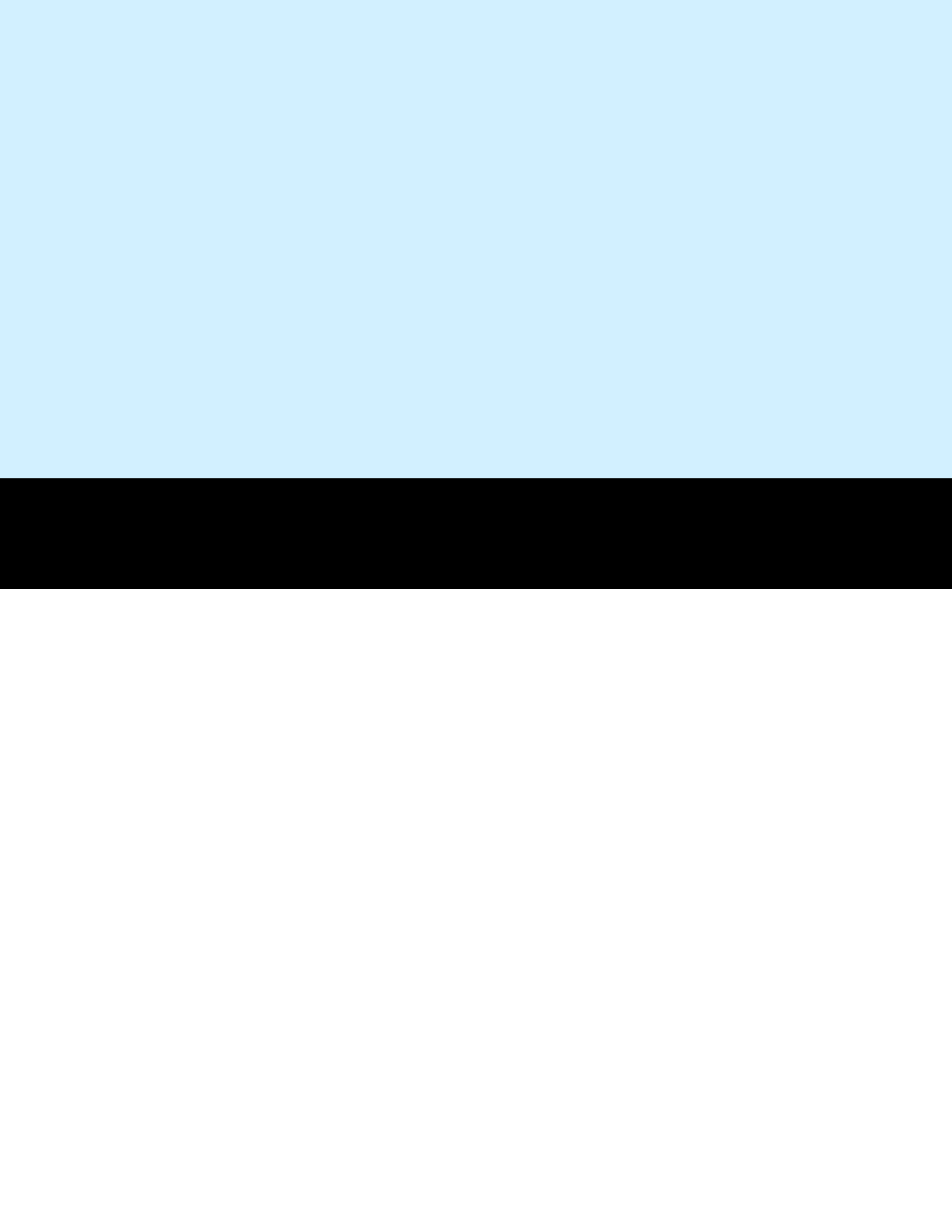
Passcape Software,

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'music_songs.pcd'

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(6) CD.
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4.1

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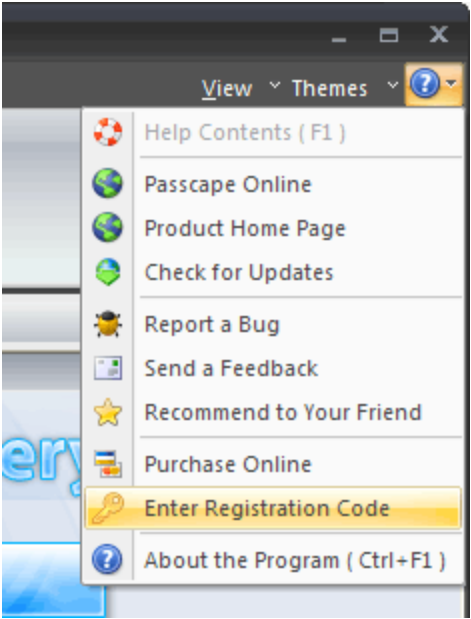
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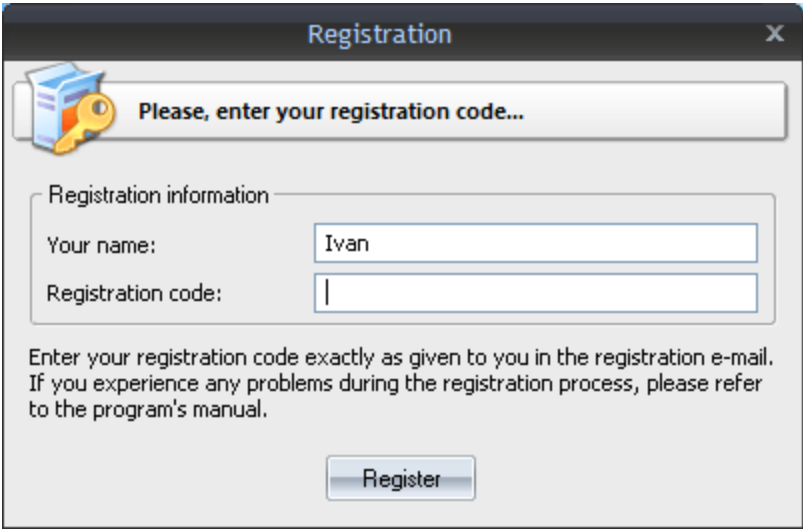
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4.2



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- Register**
- Help - Enter Registration Code**



4.3



Wireless Password Recovery

4.4



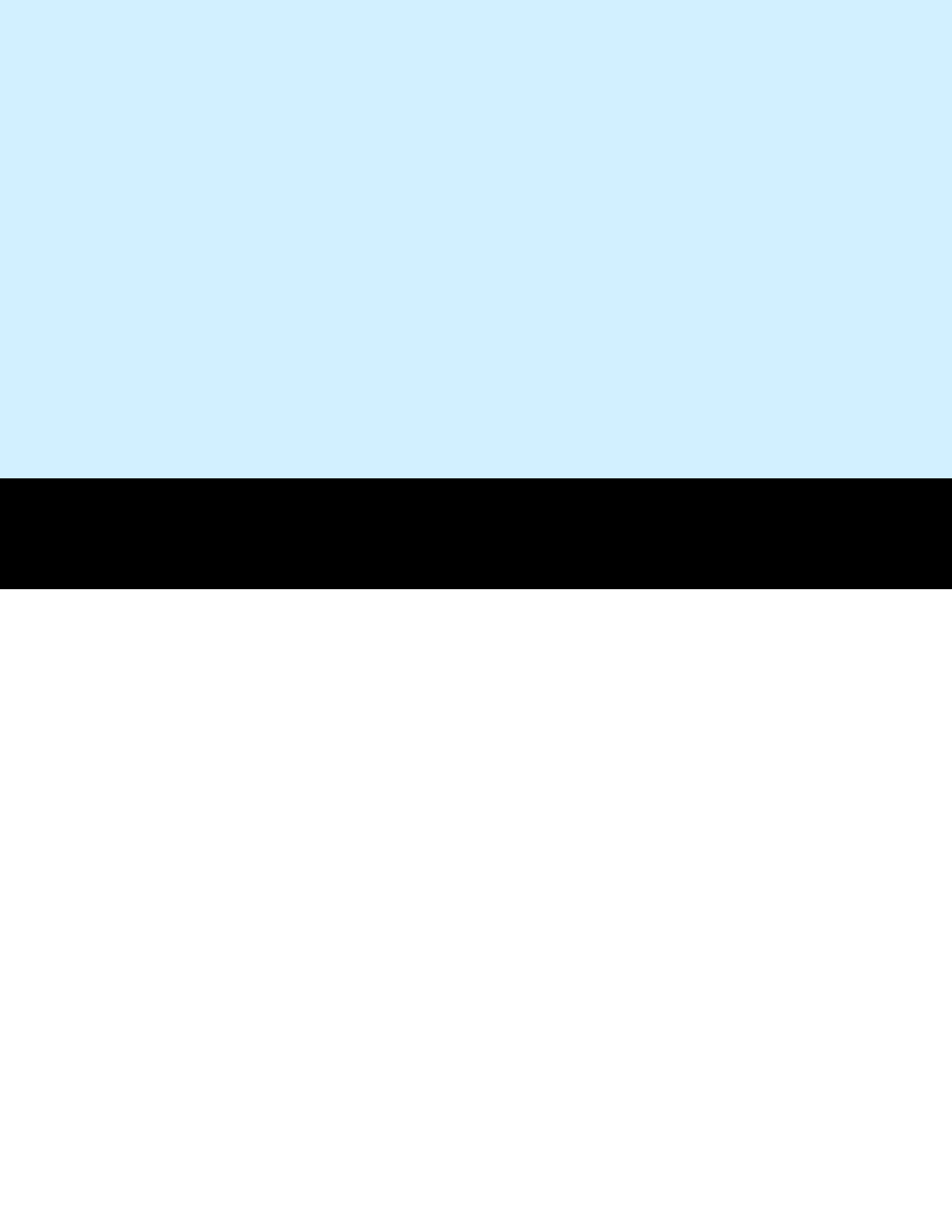
Wireless Password Recovery : Standard Professional.

		Standard	Professional
Windows	Windows 2000	+	+
64-bit Windows		+	+
		+	+
		+	+
		+	+
		+	+
		+	+
		+	+
		+	+
WIFIPRDUMP		+	+
		+	+
		+	+
		+	+

	Standard	Professional
CPU	2	32
GPU	1	255
	-	+
AI	-	+
	-	+
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MAC	+	+
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	Standard	Professional
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support@passcape.com.

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- Windows,
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Crash.log,

5.2

info@passcape.com.

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FAQ. :

support@passcape.com.

: sales@passcape.com

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