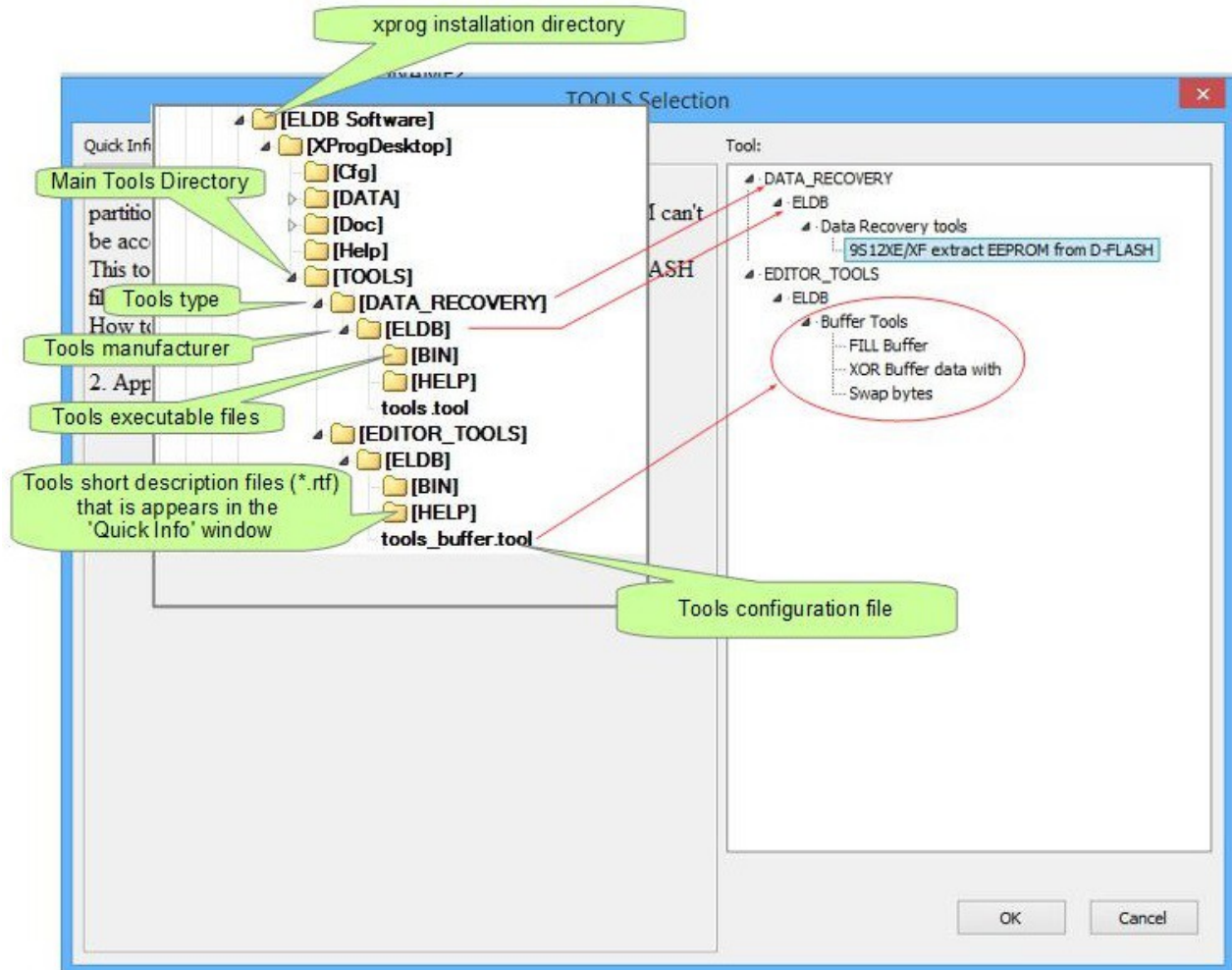
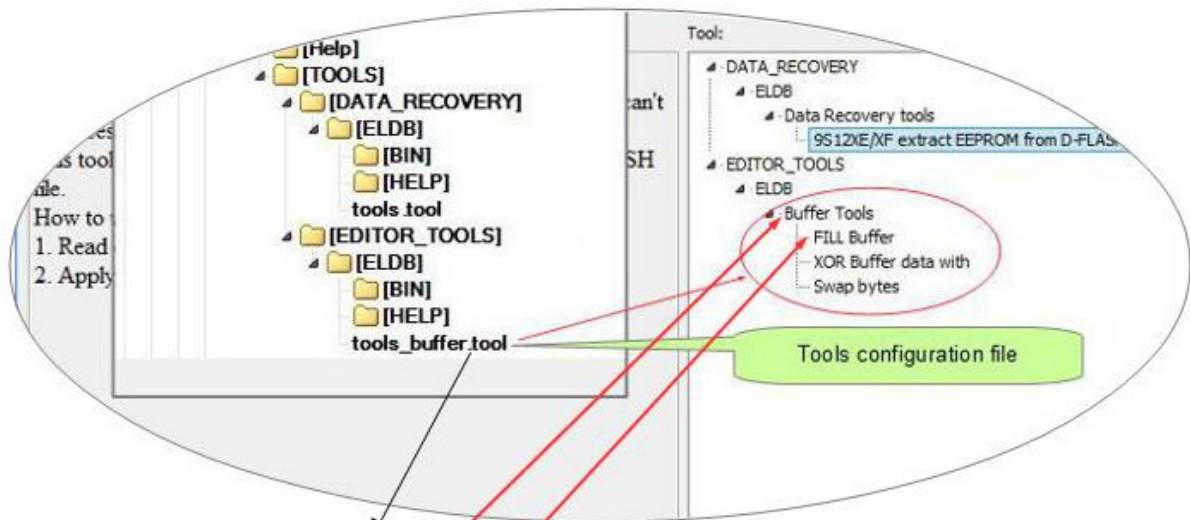


1. Add external tool to xprog software

1.1 Quick info



1.2 Tools configuration file



```
[INFO]
Description=HELP\editor_tools.rtf
MenuName=Buffer Tools
ToolsCount=3
[Tool1]
Description=HELP\fill_buffer.rtf
MenuName=FILL Buffer
exeFile=BIN\fill_buffer.exe
paramcount=1
par1=0

[Tool2]
Description=HELP\xor_buffer.rtf
MenuName=XOR Buffer data with
exeFile=BIN\fill_buffer.exe
paramcount=1
par1=1

[Tool3]
Description=HELP\swap_bytes.rtf
MenuName=Swap bytes
exeFile=BIN\Swap_Bytes.exe
paramcount=0
```

Exe file commandline parameters

2. Communication between xprog software and external tool

Communication (bidirectional data buffer, commands) between xprog software and external tool uses FileMapping. Xprog software uses two file mapping names:

- 'xprog_buffer' : bidirectional binary file (Delphi:PAnsiChar) that shares data between xprog software and external tool. Default max size is 16Mbytes. Tool_test_software uses 'Test_Buffer' file name insted 'xprog_buffer'.
- 'calc_result' : bidirectional parameters/result file. Tool_test_software uses 'Test_Result' file name insted 'calc_result'.

File structure:

Result : 4 bytes

Shared xprog Hex editor File size (`_file_size`): 4 bytes

Shared xprog Hex editor File data selection start (`_file_sel_start`): 4 bytes

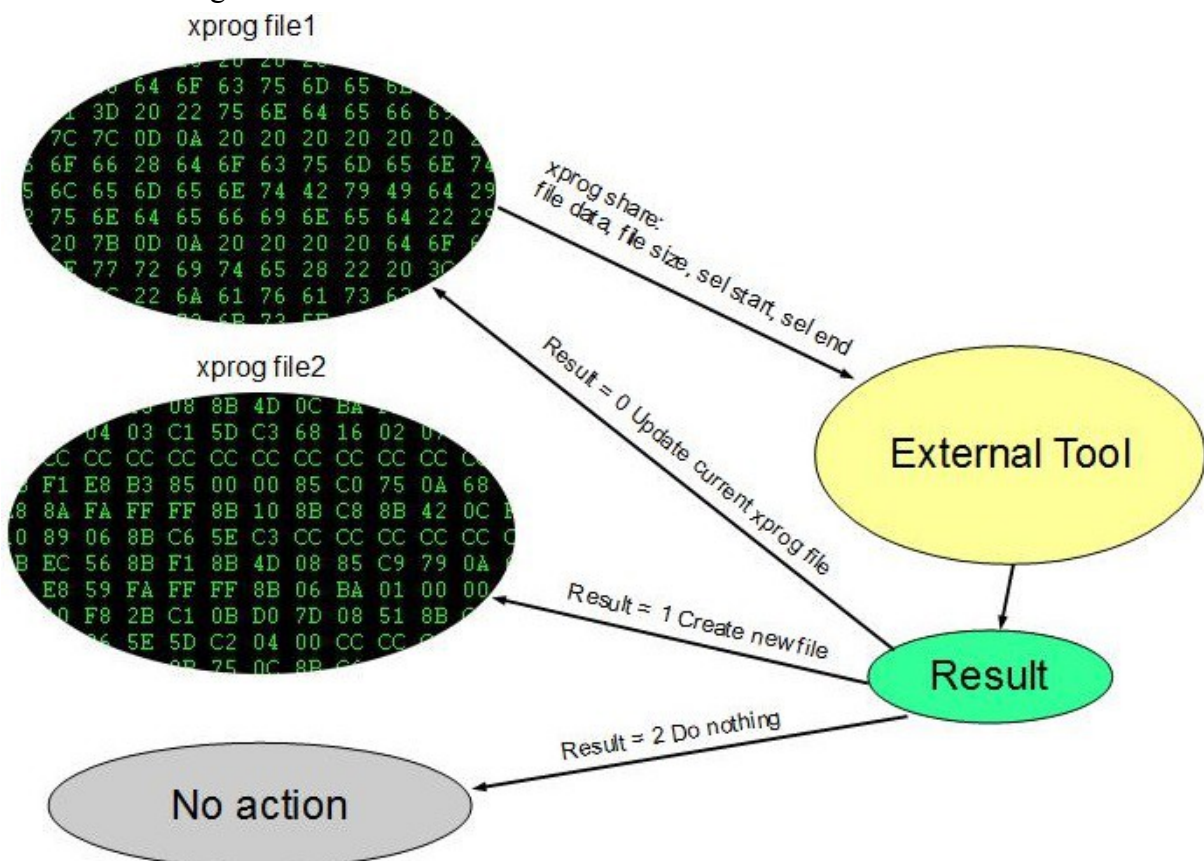
Shared xprog Hex editor File data selection end (`_file_sel_end`): 4 bytes

Result:

0 – current xprog Hex editor File must be updated. File size stored in the `_file_size`

1 – create new and update xprog Hex editor File. File size stored in the `_file_size`

2 - do nothing



2.1 Command line

command line used by xprog software:

example_tool.exe *xprog_buffer* *calc_result* *par1* *par2* *par3* ... *parn*

par1, *par2*, ..., *parn* – parameters from Tools configuration file

2.2 Tool side code example (Delphi)

```
type
  Result_Tools = Record
    result : cardinal;
    file_size : cardinal;
    sel_start : cardinal;
    sel_end : cardinal;
  End;

Var
  _handle, _handle_res : THandle;
  Share_file : PAnsiChar;
  _cres : ^Result_Tools;

Begin
  _handle_res := OpenFileMapping(FILE_MAP_ALL_ACCESS, False, PChar(params[1]));
  _cres := MapViewOfFile(_handle_res, FILE_MAP_ALL_ACCESS, 0, 0, Sizeof (Result_Tools));
  //---
  _handle := OpenFileMapping(FILE_MAP_ALL_ACCESS, False, PChar(params[0]));
  Share_file := MapViewOfFile(_handle, FILE_MAP_ALL_ACCESS, 0, 0, _cres.file_size);
End;
```

Callouts:
- Callout 1: `'xprog_buffer'` (points to `params[0]`)
- Callout 2: `'calc_result'` (points to `params[1]`)

3. Tools Tester

Simple software - tools tester, tools development helper is available free at www.eldb.eu
Software enables develop and test tools without xprog software.

