Functions for import of vector file formats into pictures

A user interface requires a set of three functions, which are incased in a dynamic library (DLL), for the import of vector formats into pictures. D2000 GrEditor calls these functions when occurring a request to import vector image into the opened graphic picture.
The types of functions:

1. Identification function - provides a description of import file format and type of suffix
2. Initialization function - initiates the call-back functions that ensure the callbacks of D2000 GrEditor functions
3. Execution function - ensures the import of file to the defined picture size

Identification function

The identification function **GetFileType** (in Stdcall calling convention _GetFileType@8) provides a description of import file format and a type of suffix in the form of two addresses. These addresses point to the first character of text string which last character is zero. These text strings are used in the selection of import file. E.g. the texts "Autocad DXF" and "DXF" will be formed into the text "Autocad DXF (*.DXF)". It refers to the request for the files with "DXF" suffix.

The function structure in compilers of "ADA" and "C":

procedure GetFileType(description,extension: out address);
void _stdcall GetFileType(char far * description,char far * extension)

Parameter	Meaning
description	Output parameter - a pointer to the text that describes the import format. Maximal number of characters: 80.
extension	Output parameter - a pointer to the text containing a type of suffix of import file. Maximal number of characters: 12.

Initialization function

The initialization function **ImportConnect** (in Stdcall calling convention _ImportConnect@8) transfers the addresses of call-back procedures of import DLL. These procedures enables to create the graphic objects of picture, set their parameters and show the information about the import status.

The function structure in compilers of "ADA" and "C":

procedure ImportConnect(procType:integer; procAddr :address);
void _stdcall ImportConnect(int procType,int procAddr)

Parameter	Meaning
procType	Input parameter - a type of call-back procedure.
procAddr	Input parameter - an address of call-back procedure.

The implementation of this procedure requires to remember the links which the driver will be used for calling of the executive function. The description of input parameter *procType* and the functions is described in the chapter Call-back procedures.

Executive function

The execution function **ImportFile** (in Stdcall calling convention _ImportFile@16) ensures the import of file to the defined size of picture. The function decodes the content of import file and creates the graphic object by means of call-back procedures in an active picture. The objects are included automatically into the group of objects. You can see a result of the import in parameter *resStr*, which occurs in a dialog window.

The function structure in compilers of "ADA" and "C":

procedure ImportFile(FileName:address;x,y:INTEGER;resStr:address);
void _stdcall ImportFile(char far * FileName,int x,int y,char far * resStr)

Parameter	Meaning
FileName	Input parameter - name of the import file.
x	Input parameter - a target area on x-coordinate.
y	Input parameter - a target area on y-coordinate.
resStr	Input parameter - a pointer to the text, which the last character is zero. The import writes the result into it. Maximal number of characters: 10000.

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