CODE MAGUS

---

applparms: Application Parameters Type A Interface Guide and Reference Version 1

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1   Thistle Interface

1.1   Introduction

The *Thistle* Type A Interface `applparmtai` is the interface to the Code Magus `applparms` Library and provides the means by which *Thistle* scripts (packages and usecases) can open and make use of the parameters defined in a given application parameter file.

It is not the responsibility of the *Thistle* Type A Interface `applparmtai` to define how a particular user interface should look or how it should interact with the current application parameter file but rather to provide a means of accessing the application parameter file and making the parameters defined in that file available to the *Thistle* runtime environment.

This document shows how the parameters defined in an application parameter file can be used by the *Thistle* scripts. For instruction on how a particular application is used to modify application parameter files and for more information on the `applparms` library, the appropriate documentation should be consulted.

This document uses the `aptabgui` user interface to illustrate how to open a given application parameter file as well as accessing it's parameters in a *Thistle* script.

1.2   Interface Definition

The *Thistle* Interface Definition for `applparmstai` is a normal Type A Interface to *Thistle*.

```
interface ApplParms;
{
  -- $Author: justin $
  -- $Date: 2010/01/08 08:59:47 $
  -- $Id: ApplParms.tid,v 1.3 2010/01/08 08:59:47 justin Exp $
  -- $Name:  $
  -- $Revision: 1.3 $
  -- $State: Exp $
  --
  -- $Log: ApplParms.tid,v $
  -- Revision 1.3  2010/01/08 08:59:47  justin
  -- updated path to appropriate installation directory.
  --
  -- Revision 1.2  2010/01/05 09:58:53  justin
  -- fixed syntax error.
  --
  -- Revision 1.1  2010/01/05 09:56:34  justin
  -- take on.
  --
  --
```

```
      --
      --
  }

    Type : typea;
    Module : "C:\Program Files\CodeMagusLimited\eresiavte\lib\applparmstai.dll";
    Init : applparmstai_init;
  end.
```

2   Interface reference

2.1   Methods

The `open()` method is the only method exposed by the `applparmtai` Type A Interface. This is shown here together with the name of the parameter and with the associate `applparms` Library function name. For a description of the method, refer to the corresponding `applparms` Library documentation.

2.1.1   `open()`

`open()`   Function `open()` is the Type A Interface wrapper function for the `applparms` library function `applparms_open()`.

This function maps between the *Thistle* called function and the `applparms` library function. If the `applparms` library operation fails then this writes the error message to the log and reports the failure to the executing script.

If function `open()` successfully opens an application parameter file, then the function returns all the parameters contained in the application parameter file to *Thistle* so that the parameter values may be used as required.

Parameters for Function `open()`

`filename`   The file name string supplied to the `open()` function is a text string in the format as required by the first parameter of the `applparms_open()` function. This string names the path and file name of the application parameter file to be opened.

`flags`   The flags parameter is required and supplies, in operator-string form (see `flagopts.pdf`), the values of the desired flags. The following flags are supported:

Flag Value	Flag String	Option
APPLPARMS_OPT_OFFLINE	OFFLINE	process in non-interactive mode, no UI
APPLPARMS_OPT_VERBOSE	VERBOSE	produce verbose output when processing

Examples

```
flags:="/VERBOSE"
flags:="/OFFLINE"
```

2.2   Example *Thistle* Script

The module `ApplParmtai` wraps the `applparms` library interface and exposes it to
the *Thistle* environment as a Type A Interface. The following Thistle Interface Definition defines this interface to the *Thistle* environment:

```
interface ApplParms;
{
  -- $Author: justin $
  -- $Date: 2010/01/08 08:59:47 $
  -- $Id: ApplParms.tid,v 1.3 2010/01/08 08:59:47 justin Exp $
  -- $Name:  $
  -- $Revision: 1.3 $
  -- $State: Exp $
  --
  -- $Log: ApplParms.tid,v $
  -- Revision 1.3  2010/01/08 08:59:47  justin
  -- updated path to appropriate installation directory.
  --
  -- Revision 1.2  2010/01/05 09:58:53  justin
  -- fixed syntax error.
  --
  -- Revision 1.1  2010/01/05 09:56:34  justin
  -- take on.
  --
  --
  --
  --
}

  Type : typea;
  Module : "C:\Program Files\CodeMagusLimited\eresiavte\lib\applparmstai.dll";
  Init : applparmstai_init;
end.
```

The *Thistle* run-time locates the named interface definition using the standard *Thistle*
external path convention. For example, the following in the preamble of a script

```
  interface ApplParms : CodeMagus.ApplParms;
```

introduces `applparmtai` as an internal local name of the interface.

The *Thistle* interface definition file shown above is installed with the Eresia Visual Test Environment to the directory listed below.

```
C:\Program Files\CodeMagusLimited\eresiavte\components\ApplParms.tid
```

The following script shows how the `applparmtai` interface could be used for opening an application parameter file and using the parameters contained within the file.

```
package ApplParmsExample;
{ preamble }

   created by 'Justin Albertyn';
   description 'Access parameters defined in an application parameter file';
   date 2005-08-02T09:31:28;
   target 'Eresia File Portal';
   interface ApplParms : CodeMagus.ApplParms;

begin
   APInstance := ApplParms.Connect();


   APInstance.open("C:/CodeMagus/Stl/GenerateDailySettlementFile.apd", "/VERBOSE");

   OutputFile := APInstance.SettlementFileName;
   InputFile  := APInstance.INFILE;

   System.WriteLn("Output file name: " # OutputFile);
   System.WriteLn("Input file name: "  # InputFile);

   return 0;
end.
```

When the running *Thistle* script reaches the call to open the application parameter file i.e.

```
   APInstance.open("C:/CodeMagus/Settlement/GenerateDailySettlementFile.apd");
```
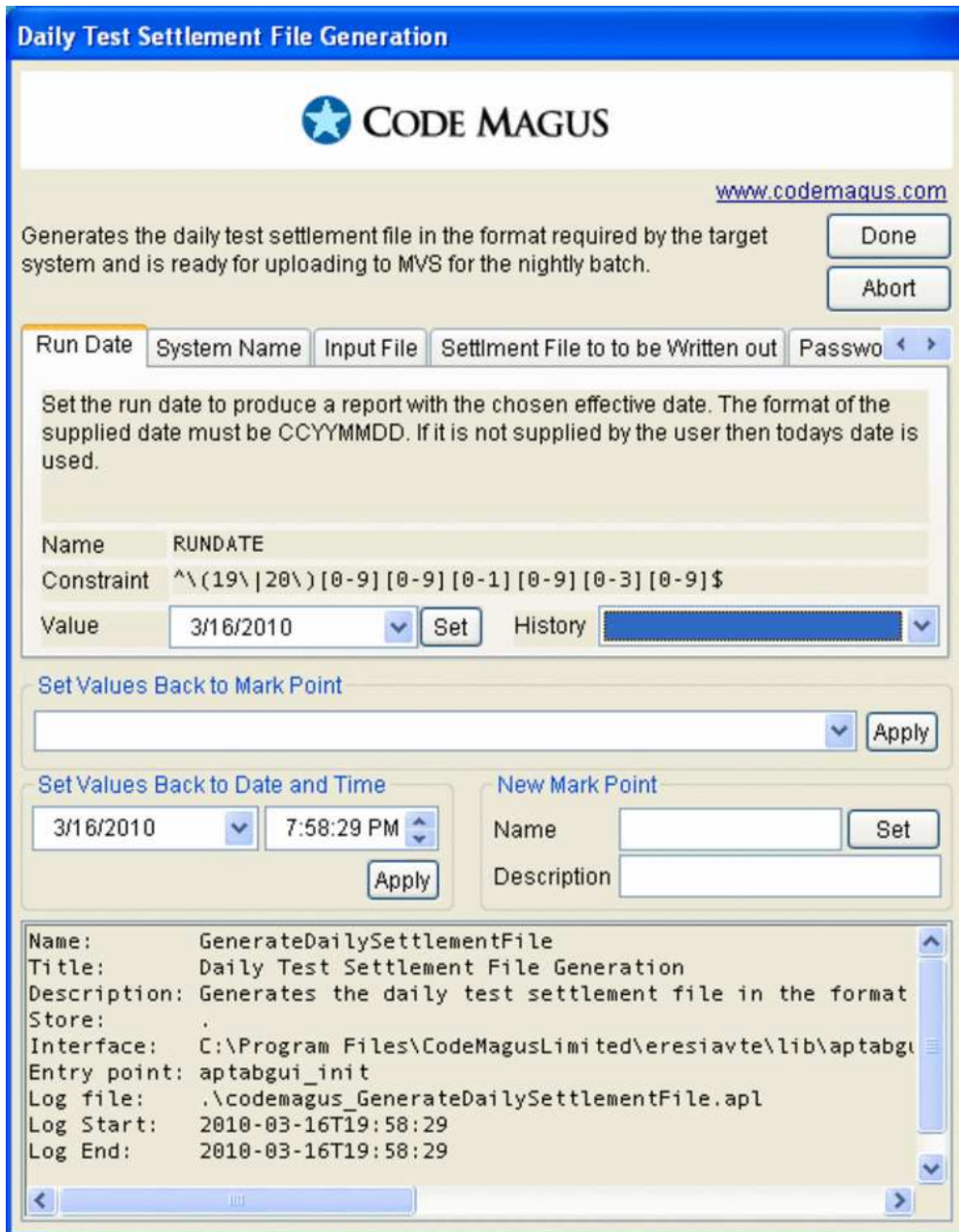
the interface described in the application parameter definition will be made available to the user. The aptabgui.dll is a GUI version used with *Thistle* scripts, this is shown in Figure 1.

Running this script produces the expected (but truncated here) output:

```
ApplParms File: C:/CodeMagus/Examples/MyConfig.apd Opened Successfully.
Output file name: SampeOutputFile.otp
Input file name: SampleInputFile.inp
20100111-103726 codemagus@SETEBOS Package ApplParmsExample has completed with
highest return code 0.
Interface applparms cleanup complete.
$Id: output.txt,v 1.1 2010/01/11 12:25:31 justin Exp $
20100111-103726 codemagus@SETEBOS Job J0002802_D20100111_T103724_ApplParmsExample
completed.
```

The application parameter file used in the script above is shown below.

```
application MyConfig;
-- A sample APD file used by the testappl program for running unit tests. If
-- changes are made to this file make sure that the test program is checked to
-- still work correctly as it assumes various attributes set in this APD in
-- order to test all the functionality of the AP library.
--
-- $Author: justin $
-- $Date: 2010/02/05 10:40:45 $
-- $Id: MyConfig.apd,v 1.4 2010/02/05 10:40:45 justin Exp $
-- $Name:  $
-- $Revision: 1.4 $
-- $State: Exp $
--
-- $Log: MyConfig.apd,v $
-- Revision 1.4  2010/02/05 10:40:45  justin
-- aligned text.
--
-- Revision 1.3  2010/01/15 11:34:10  justin
-- updated for documentation purposes.
--
-- Revision 1.2  2010/01/11 12:39:53  justin
-- added apd config.
--
-- Revision 1.1  2010/01/11 12:31:55  justin
-- take on.
--
-- Revision 1.1  2010/01/06 09:54:37  darren
-- Take on
--
-- Revision 1.2  2009/12/31 09:37:04  hayward
-- Split program name into path,name and suffix
--
-- Revision 1.1.1.1  2009/12/29 09:20:52  hayward
-- Import appcmdui into CVS.
--
   title "Example Usage of the Thistle Type A Interface to the applparms Library";
   description "The Thistle Type A Interface applparmtai is the interface to the "
            "Code Magus applparms Library and provides the means by which "
```

Figure 1: Opening aptabgui from a *Thistle* script.

```
                "Thistle scripts can open and access a given application "
                "parameter file."
              ;
   store "c:/logs";
   set TODAY = ${DATE_YYYYMMDD};

-- The interface defines the shared object or DLL program that will interact
-- with the user to ensure that all parameters have a value. The value
-- for interface is string in quotes naming the DLL program or the word default
-- in which case the UI is the command line UI.

-- set CMDSUFF = ".so";
-- set CMDPATH = "./";
   set CMDSUFF = ".dll";
   set CMDPATH = "c:/Program Files/CodeMagusLimited/eresiavte/lib/";
   interface "c:/Program Files/CodeMagusLimited/eresiavte/lib/aptabgui.dll";
   entry aptabgui_init;

   parameter RUNDATE
      title "Run Date";
      default ${TODAY};
      options date;     -- indicates system can use calendar input
      description "Set the run date to produce a report with the chosen "
         "effective date. The format of the supplied date must be CCYYMMDD";
      constraint "^\(19\|20\)[0-9][0-9][0-1][0-9][0-3][0-9]$";
   end

   parameter SYSID
      title "System Name";
      default "DARRENDEVXP";
      options alphanumeric;     -- indicates a alphanum value
      description "The current name of the system this process is running "
         "on.";
      constraint "^.*$";
   end

   parameter INFILE
      title "Input File";
      default NULL; -- forces the user to insert a value if one is not found
      options filename;
                    -- allows system to file system navigate to choose name
      description "Name of the raw input file to process in order to produce "
      "the report.";
      constraint "^[^ ]\+$"; --- at least one character, no spaces.
   end

   parameter SettlementFileName
      title "Settlment File to to be Written out";
      default NULL; -- forces the user to insert a value if one is not found
      options filename;
                    -- allows system to file system navigate to choose name
      description
```

```
        "This is the name of the settlement test file that will be "
        "created as the result of a success execution of this script. "
        "The file will be in a format suitable for directly copying "
        "into the concantenation of your settlement process. ";
      constraint "^[^ ]\+$"; --- at least one character, no spaces.
   end
end.
```