Overview

CoDeSys Service Tool - Overview

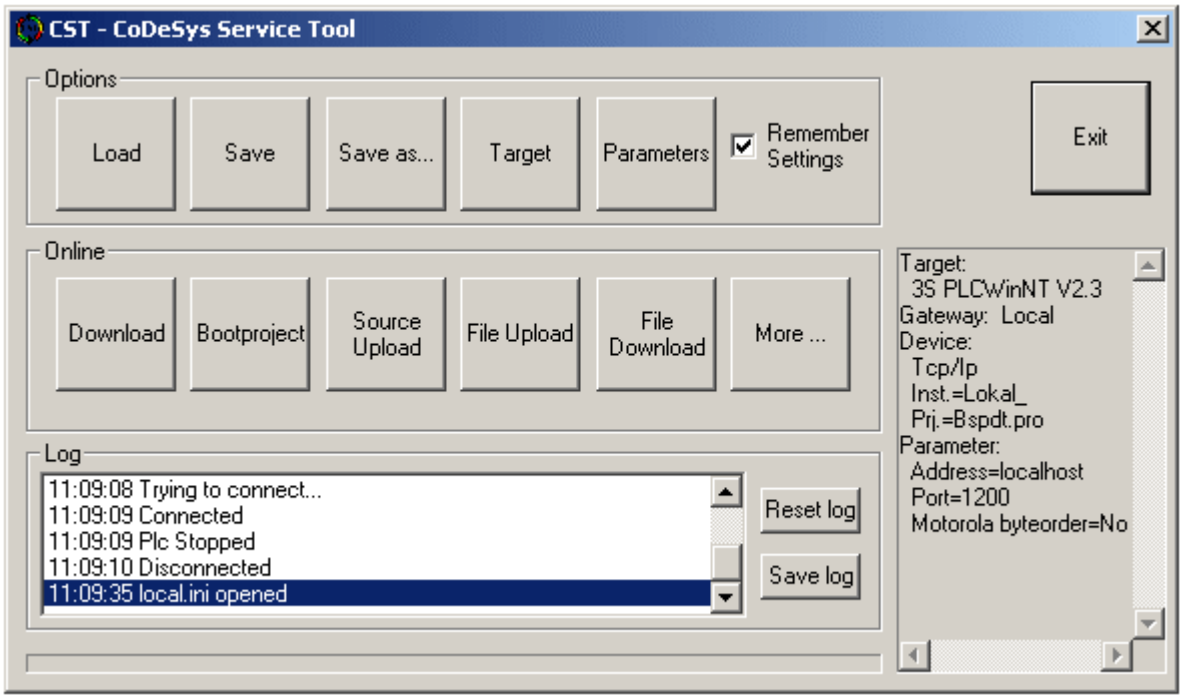
Last Update: 02.08.04, V1.0

CONTENT

1 CST FUNCTIONALITY 2

2 CST COMMAND LINE FUNCTIONS 4

1 CST Functionality



1. **Load:**
   Opens a saved CST-File that stores the connection information to the controller.
2. **Save / Save as….**:
   Saves the connection information.
3. **Target:**
   Opens a PopUp window with configuration options.
4. **Parameter:**
   Opens a PopUp window to set the gateway parameters.
5. **Remember Settings:**
   If this Option is activated, CST remembers the configuration options, and the gateway parameters that were last set, after a restart.
6. **Download:**
   This feature Downloads a .bin file, that was created in CoDeSys, to the Controller. Existing programs will be deleted!

   Supported Targets:

   - Motorola 68k
   - Infineon C16x

7. **Bootproject:**
   This feature creates a Bootproject on the controller. If there is already an existing Bootproject, it will be overwritten. A .prg file, that was created in CoDeSys has to be selected to perform the bootproject option, the .chk file also has to be present (this is not needed for Infineon C16x).

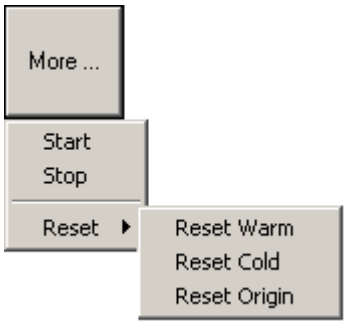
   If the Checkbox 

in the File-Open Dialog is activated the SDB – Symbolfile is automatically downloaded to the Controller.

   Supported Targets:

   - Motorola 68k
   - Intel StrongARM
   - PowerPC
   - MIPS III
   - Infineon C16x (".bin" file has to be Downloaded before creating Bootproject)
   - Hitachi SH
   - Hitachi H8S
   - Intel 386 compatible
   - Intel 186 compatible

8. **Source Upload:**
   Uploads the source code, that was downloaded with CoDeSys, to an empty folder. If the folder is not empty files will be overwritten.
9. **File Upload:**
   Uploads a file from the controller.
10. **File Download:**
    Downloads a file to the controller.
11. **More…:**
    Opens a PopUp window with the following options:



12. **Start:**
    Starts the controller.
13. **Stop:**
    Stops the controller.
14. **Reset:**
    Resets the controller.

2 CST Command line Functions

CST can also be controlled using the command line. If command line arguements are passed to the CST.exe file, the Dialog window doesn't appear. The program executes the given tasks and returns a result value as exit code.

The following Options are supported:

-pf [PATH]	Opens the configuration file [PATH]. This has to be set for each action.
-sta	Start
-sto	Stop
-rw	Reset Warm
-rc	Reset Cold
-ro	Reset Origin
-d [PATH]	Downloads the bin file specified by [PATH]. Only for "Motorola 68k" and "Infineon C16x".
-b [PATH]	Creates a Bootproject from [PATH] ([PATH] not needed for "Infineon C16x")
-bs [PATH]	Creates a Bootproject from [PATH] and downloads the SDB-File to the contoller (not supported for "Infineon C16x")
-su [PATH]	Source Upload to the folder specified by [PATH]
-fu [PATH]	File Upload to file specified by [PATH]
-fd [PATH]	Download the file [PATH]

If a filepath includes spaces, the whole path has to be in quotation marks.

The Options are executed within one connection to the contoller in the same sequence as they are written to the command line. For example you can download a bin file, create a bootproject, reset, and start the controller in this sequence with the following line:

```
CST.exe -pf "c:\new folder\cont1.ini" -d c:\bsp.bin -b -rw -sta
```

Return Values:

When all given actions succeed the program exits with the exit code 0. If there were problems during the execution, one of the following exit codes is returned:

Return Value	Description
1	The configuration file was not found. No actions were executed.
2	The action “start” failed.
3	The action “stop” failed.
4	The action “Reset Warm” failed.
5	The action “Reset Cold” failed.
6	The action “Reset Origin” failed.
7	The action “Download” failed.
8	The action “Bootproject” failed.
9	The action “Source Upload” failed.
10	No Source was found on the controller. Upload failed.
11	The action “File Upload” failed.
12	The action “File Download” failed.
13	The SDB-File could not be found
14	The download of the SDB-File failed
100	Unknown Error.
101	Unknow Target.
102	The File could not be found.
103	The connection to the controller could not be established.
104	The selected target does not support this feature.