ctys-install(1)
base interface for installation and update

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Contents

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1   NAME

ctys-install - base interface for installation and update

2   SYNTAX

ctys-install

```
[libdir=<default=\$HOME/lib>]
[bindir=<default=\$HOME/bin>]
[templatedir=<default=\$HOME/ctys>]
[remove<default=unset>]
[noconf<default=unset>]
[force<default=unset>]
[forceall<default=unset>]
[forceclean<default=unset>]
[linkonly<default=unset>]
[version|--version|-V]

[-h]
[-H <help-options>]
[-X]
```

3   DESCRIPTION

ctys-install is the base interface for installation and update. For the common tasks ctys-distribute should be preferred, which has a more straight forward interface.

"ctys-install" is used internally by "ctys-distribute" with some detailed options. Therefore several call options are provided on a level of higher granularity. "ctys-install" itself makes sub-calls of "ctys-install1", which is only foreseen to be called by the user via wrapper scripts.

initial install - common paths
> The "initial install" has no specific options, just the generic options for redefinition of install paths are available.

update
> The options force, foceall, and forceclean are particularly available for protection or deletion of present user specific configuration files.

common sources - symbolic links
> The "linkonly" option forces the installation of symbolic links pointing to the actual location of the called "ctys-install" directories and executables instead of performing a full scale install by copy.

> The usage of symbolic links for each executable has particularly advantages for "quick-installs" and test purposes when used in combination with a commmon directory structure on all machines by NFS. Thus multiple user accounts on multiple virtual and physical machines could be used for access to modified versions without requiring an update.

> The required configuration and template directories are still copied to the user's home for further modification. Several configuration files are initially present only as defaults within the resulting install directory and has to be copied by the user when required to be altered.

The following combinations of call options for install cover the common install procedures.

Individual Install
> Installs by copy of configurations and local lib-subdirectory containing the copy of installed version.

ctys-install
>   The basic and initial call, when a complete local copy is required.

ctys-install force
>   Suppresses the version check, which by default allows for updates with "higher" version numbers only. Thus the current version will be installed independetly of the previous.

ctys-install forceall
>   When previous configuration or templates are present, by default the installation is canceled with a notification. When FORCEALL is set, the present directories are moved to a backup directoy by appending the current date to the directory name.
>
>   The caution in handling this directories is due to the fact, that the configuration directories contain the individually edited configuratiob, GROUP and MACRO files, and the generated cacheDB files.

ctys-install forceclean
>   The option FORCECLEAN forces the previous deletion of installed componnents, no backups are created.

Centralized Install by Local Symbolic Links
>   Installs a copy of configurations and creates symbolic links to the install sources.

ctys-install linkonly
>   The basic and initial call, where locall symbolic links and a minimal copy of configuration and template files is created. The actual runtime system is just called by symbolic links, where for each executable an individual link is created by default in "$HOME/bin".

>   - **ctys-install linkonly force**
>   See "ctys-install force"
>   - **ctys-install linkonly forceall**
>   See "ctys-install forceall"
>   - **ctys-install linkonly forceclean**
>   See "ctys-install forceclean"

- Centralized Install by Search PATH
  Just install to any target, either by copy or by linkonly, and set the PATH as required.

ctys-install1
>   Internal call for ctys-install.

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4   OPTIONS

[libdir=<default=$HOME/lib>]
>   The root path for the physical install target. The actual physical install is handled by a name including the current version in a similar manner as shared libraries naming convention.

>    ```
>    DEFAULT=$HOME/lib
>    ```

[bindir=<default=$HOME/bin>]
>   The path to the starter directory, which is contained in the PATH variable.

>   - Symbolic link:
>
>      ```
>      $bindir/ctys -> $libdir/ctys.<version>/bin/ctys
>      ```
>   - Bootstrap file:
>
>      ```
>      $bindir/bootstrap/bootstrap.<version>
>      ```

[templatedir=<default=$HOME/ctys>]
>   Directory to templates and test-data matching current version. When an emtpy string is set, the install is suppressed, and the templates are contained within the libdir only.

[remove<default=unset>]
  Removes previous configuration and templates.

[noconf<default=unset>]
  Suppresses the install of initial configuration files. Could be somewhat dangerous, because some essential parameters are stored within the configuration and should match the executed version.

[force<default=unset>]
  Checks "ctys -V -X" alphabetically/literally, normally only updates are allowed, but force installs in any case. Current users configuration director $HOME/.ctys will be left unchanged.

[forceall<default=unset>]
  Checks "ctys -V -X" alphebetically/literally, normally only updates are allowed, but forceall installs in any case. Anything, else than users configuration directory $HOME/.ctys, will be removed and installed again. The users current configuration will be moved to $HOME/.ctys.bak.$DATETIME.

[forceclean<default=unset>]
  Checks "ctys -V -X" alphebetically/literally, normally only updates are allowed, but force installs in any case. Anything, including current users configuration directory $HOME/.ctys, will be removed and installed again.

[linkonly<default=unset>]
  Suppress the local copy to $HOME/lib directory, just appropriate symbolic links are set to the given source directory determined by this call. Anyhow, the configuration is copied and/or preserved as usual.

[version|−version|-V]

[-X]

[help|−help|-help|-h]

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5   EXIT-VALUES

0: OK: Result is valid.

1: NOK: Erroneous parameters.

2: NOK: Missing an environment element like files or databases.

6 SEE ALSO

ctys use-cases ffs.

ctys plugins

  PMs ctys-PM(1)

  VMs ctys-KVM(1) , ctys-QEMU(1) , ctys-VBOX(1) , ctys-VMW(1) , ctys-XEN(1)

  HOSTS ctys-CLI(1) , ctys-RDP(1) , ctys-VNC(1) , ctys-X11(1)

ctys executables ctys-distribute , ctys-genmconf , ctys-plugins , ctys-vhost

system executables ffs.

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Commercial:	<http://www.i4p.com>

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