



<https://verifone.cloud/docs/application-development-kit-version-47/namespac filesystem>

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filesystem Namespace Reference

Data Structures

struct [rw_file_def](#)
struct [UpdateFiles](#)

Enumerations

```
Location {  
    LOC\_None,  
    LOC\_SdiFlashDir,  
    LOC\_SdiConfigDir,  
    LOC\_SdiExtConfigDir,  
  
enum LOC\_EmvFlashDir,  
LOC\_EmvConfigDir,  
LOC\_LogConfigDir,  
LOC\_NfcFlashDir,  
  
LOC\_SdiExtFontsDir  
}  
Condition { COND\_None = 0,  
COND\_Android = 1,  
COND\_NotAndroid = 2  
}
```

```

Action {
    ACT_None = 0,
    ACT_SecInit,
    ACT_EmvExit,
    ACT_EmvExitComplete,
}

enum
    ACT_LogInit,
    ACT_CardRanges,
    ACT_AcIInit

}

FilesModes { FM_Default = 0,
enum      FM_NoAbort = 1
}

```

Functions

void	<u>factory_reset</u> ()
void	<u>init</u> ()
bool	<u>read_file</u> (const char *file, string &data)
bool	<u>write_file</u> (const char *file, const string &data)
bool	<u>copy_file</u> (const string &src, const string &dest)
bool	<u>move_file</u> (const string &src, const string &dst)
int	<u>get_dir_files</u> (const char *dir, vector< string > *files, const char *regex)
int	<u>copy_files</u> (const vector< string > &files, const char *dst_dir, unsigned modes)
int	<u>remove_files</u> (const vector< string > &files, unsigned modes)
const char *	<u>binary_dir</u> ()
string	<u>home_flash_file</u> (const string &file)
string	<u>home_config_file</u> (const string &file)
string	<u>lookup_config_file</u> (const string &file)
const char *	<u>home_flash_dir</u> ()
const char *	<u>home_config_dir</u> ()
const char *	<u>ext_config_dir</u> ()
const char *	<u>env_flash_dir</u> (int *group_id)
const char *	<u>env_config_dir</u> ()
const char *	<u>log_config_dir</u> ()
const char *	<u>nfc_flash_dir</u> ()
const char *	<u>home_lib_dir</u> ()
const char *	<u>ext_plugin_dir</u> ()
const char *	<u>ext_font_dir</u> ()
const char *	<u>tmp_dir</u> ()

```

const char * upload\_install\_dir (bool flash)
const char * sys\_remove\_sponsor\_dir ()
const char * ccp\_resource\_dir ()
const char * ccp\_database\_dir ()
const char * sdi\_update\_dir ()
const char * sdi\_persist\_dir ()

unsigned short install\_user\_configuration (bool recover)
unsigned short remove\_user\_configuration ()

unsigned short install\_sdi\_plugins (bool recover)
remove\_sdi\_plugins ()

bool read\_file (const char *file, std::string &data)
bool write\_file (const char *file, const std::string &data)
bool copy\_file (const std::string &src, const std::string &dest)
bool move\_file (const std::string &src, const std::string &dest)
int get\_dir\_files (const char *dir, std::vector< std::string > *files=0, const char *regex=0)
int copy\_files (const std::vector< std::string > &files, const char *dst_dir, unsigned modes=FM\_Default)
int remove\_files (const std::vector< std::string > &files, unsigned modes=FM\_Default)
std::string home\_flash\_file (const std::string &file)
std::string home\_config\_file (const std::string &file)
std::string lookup\_config\_file (const std::string &file)

```

Variables

const struct [UpdateFiles allowed_files](#) []

Data Structure Documentation

? filesystem::rw_file_def

struct filesystem::rw_file_def

Data Fields

enum Condition	cond condition for synchronization, if not met, the file is skipped
-----------------------------------	---

enum Location	def internal default config directory (with files to restore), see enum Location
-------------------------------	--

```
const char *      defpx  prefix used for internal default directory

enum Location dest    destination directory in flash, see enum Location

const char *      destpx file prefix for destination path

const char *      file    name of the update file

bool             regex   flag set to true, if file is a regex matching multiple files (just to optimize
                      vos_config_sync())

enum Location src     source direcotry (of the external config file), see enum Location

const char *      srpx   file prefix for source path
```

? filesystem::UpdateFiles

struct filesystem::UpdateFiles

update file definition to check for allowed files to update and remove

Data Fields

```
enum Action  action   action to execute for this file, see enum Action

enum Location dest     destination on terminal, see enum Dest

const char *      dest_prefix file prefix (path) used in application folder (if any)

const char *      file      name of the update file (without path)

const char *      prefix    file prefix (path) in the user configuration package
```

Enumeration Type Documentation

? Action

enum [Action](#)

Enumerator

ACT_None	no action required for this file
ACT_SecInit	call secInit() for this file
ACT_EnvExit	call EMV_CT_Exit_Framework() and EMV_CTLT_Exit_Framework() for this file
ACT_EnvExitComplete	call EMV_CT_Exit_Framework_extended(EXIT_CT_COMPLETE) and EMV_CTLT_Exit_Framework_extended(EXIT_CTLT_COMPLETE) for this file
ACT_LogInit	call LogAPI_ReconfigNotification() for this file
ACT_CardRanges	reload cache for card ranges configuration
ACT_AclInit	reload ACL (access control list) file

? Condition

enum [Condition](#)

Enumerator

COND_None	no condition, install on all device types
COND_Android	only install on CM5, M424 and M440 only
COND_NotAndroid	inverse of COND_Android: install on all devices except CM5, M424 and M440

? FilesModes

enum [FilesModes](#)

modes for functions [copy_files\(\)](#) and [remove_files\(\)](#)

Enumerator

FM_Default let first file error abort the function with -1.

FM_NoAbort function proceeds, in case of single files cannot be copied or removed. Function returns with number of successfully processed files.

? Location

enum [Location](#)

file location directory for SDI configuration files

Enumerator

LOC_None No directory

LOC_SdiFlashDir SDI flash configuration directory (read/write)

LOC_SdiConfigDir SDI internal configuration directory (read-only)

LOC_SdiExtConfigDir SDI directory for external user configuration (read-only)

LOC_EmvFlashDir EMV flash configuration directory (read/write)

LOC_EmvConfigDir EMV configuration directory (read-only)

LOC_LogConfigDir ADK Logging configuration directory (read-only)

LOC_NfcFlashDir ADK NFC configuration directory (read/write)

LOC_SdiExtFontsDir SDI directory for external fonts (installed with user config package (read-only)

Function Documentation

? binary_dir()

```
const char * binary_dir( )
```

return the absolute path to the SDI server binary (without filename)

Returns

absolute path to SDI server binary

? ccp_database_dir()

```
const char * ccp_database_dir( )
```

return absolute path to database folder of CCP (ADK COM CONTROL PANEL) (VOS: \$HOME/flash/com).

This function returns NULL, if the platform has no CCP support.

Returns

absolute path to CCP resource directory or NULL in case of error/no CCP support

? ccp_resource_dir()

```
const char * ccp_resource_dir( )
```

return absolute path to resource folder of CCP (ADK COM CONTROL PANEL) (VOS:
/etc/config/sdi/ccp/www or /home/sys13/www/ccp).

This function returns NULL, if the platform has no CCP support.

Returns

absolute path to CCP resource directory or NULL in case of error/no CCP support

? copy_file() [1/2]

```
bool filesystem::copy_file ( const std::string & src,  
                           const std::string & dest  
                         )
```

helper function to copy a file from source `src` to destination `dest`.

Parameters

[in] *src* source file location
[in] *dest* destination file location

Returns

true for success, else false for error

[? copy_file\(\)](#) [2/2]

```
bool filesystem::copy_file ( const string & src,  
                           const string & dest  
                         )
```

[? copy_files\(\)](#) [1/2]

```
int filesystem::copy_files ( const std::vector< std::string > & files,  
                           const char * dst_dir,  
                           unsigned modes = FM_Default  
                         )
```

helper function to copy multiple files to destination directory *dst_dir*. Source files to be copied are specified by vector *files*.

Parameters

[in] *files* vector of files to be copied to destination directory
[in] *dst_dir* path to destination directory, where the files are copied to
[in] *modes* function operation modes, see enum [FilesModes](#)

Returns

number of files, which were copied. -1 is returned in case of error due to missing directory or file access.

[? copy_files\(\)](#) [2/2]

```
int filesystem::copy_files ( const vector< string > & files,  
                           const char * dst_dir,  
                           unsigned modes  
                         )
```

[? env_config_dir\(\)](#)

```
const char * emv_config_dir( )
```

return the absolute path to folder for read-only EMV files. (VOS: /etc/config/adkemv) (Android: \$HOME)

Required for SW update on Android. On VOS it is unused.

Returns

absolute path to HOME for read-only EMV files

? emv_flash_dir()

```
const char * emv_flash_dir( int * group_id = 0 )
```

return the absolute path to flash folder for writeable EMV files. (VOS: /mnt/flash/etc/config/adkemv) (Android: \$HOME/flash/adkemv)

Required for SW update on Android and to access "EMV_Terminal.xml" to get terminal language.

Parameters

[in] `group_id` pointer to variable, which is set with the group ID of the folder Optional, default is NULL
(group ID not returned). In case of error (e.g. directory couldn't be created) -1 is returned.

Returns

absolute path to shared flash folder for writeable EMV files

? ext_config_dir()

```
const char * ext_config_dir( )
```

return the abloslute path of external SDI configuration folder directory (VOS: /etc/config/sdi). This folder holds the external configuration files, which were installed by user configuration package to overload SDI default configuration. The external SDI configuration folder contains files for read access only.

Returns

absolute path to external SDI configuration folder (with read-only files)

? ext_font_dir()

```
const char * ext_font_dir( )
```

return the absolute path of the folder for external fonts. (Android: \$HOME/fonts/sdi_ext) (VOS: /usr/share/fonts)

This function is un-used on VOS, since fonts are installed with SDI font packages to the system folder, we ADK components have access to use them. On Android, ADKPRT runs in context of SDI, therefore, fonts are installed with an user config package to application domain folder.

Returns

absolute path to external fonts directory or an empty string

? ext_plugin_dir()

```
const char * ext_plugin_dir( )
```

return the absolute path of the folder for external plugins (Android: \$HOME/plugins).

This folder is used on platforms, which must use a separate folder for plugins. For instance, on Android external plugins come along with plugin update packages and SDI server is not able to write to lib folder ([home_lib_dir\(\)](#)) due to missing write permissions. On platforms without external plugins folder (e.g. VOS), this function returns an empty string.

Returns

absolute path to external plugin directory or an empty string

? factory_reset()

```
void factory_reset( )
```

perform a factory reset of SDI server. The function is invoked for command "Factory Reset (20-22)" and does the following:

- It removes all writable files, which are modified by SDI server during runtime.
- On VOS platforms it synchronizes contents of installed user config packages to restore default configurations files coming along with these packages (see step 3 of [init\(\)](#)). On Android user configuration files and SDI plugins are recovered from persistent partition. For this, functions [install_user_configuration\(\)](#) and [install_sdi_plugins\(\)](#) with flag recover=true are invoked.
- It creates writeable files (not belonging to user configuration packages) to restore other default settings, e.g. STATUS.CFG

? get_dir_files() [1/2]

```
int filesystem::get_dir_files ( const char *           dir,
                               std::vector< std::string > * files = 0,
                               const char *             regex = 0
                           )
```

helper function to count and/or obtain all files in directory `dir`. Caller has the option to pass a regular expression `regex` to match specific files to be considered for the result. The regular expression is applied on the full file path including the path prefix. If no regular expression is passed (NULL), all regular files in the directory are considered. For just counting files of the directory `dir`, caller can set parameter `files` to NULL.

Parameters

- [in] `dir` path to directory, which contains the files
- [out] `files` pointer to vector storing the found files (absolute file paths) or NULL if the function is just used for file counting.
- [in] `regex` regular expression to match specific files be considered or NULL to find all regular files in directory `dir`.

Returns

number of files, which were found. -1 is returned in case of error (e.g. from directory path or missing permissions).

The function does not work recursive, thus, subfolders in directory `dir` are not considered.

? get_dir_files() [2/2]

```
int filesystem::get_dir_files ( const char *           dir,
                               vector< string > * files,
                               const char *         regex
                           )
```

? home_config_dir()

```
const char * home_config_dir ( )
```

return the abloslute path of SDI configuration folder in home directory (VOS: \$HOME/share/sdi). This folder holds the SDI default configuration files, which are used, as long as not overloaded by external user configuration package. SDI configuration folder contains files for read access only.

Returns

absolute path to SDI default configuration folder (with read-only files)

? home_config_file() [1/2]

std::string filesystem::home_config_file (const std::string & *file*)

Appends a relative filename *file* to path returned by [home_config_dir\(\)](#)

Parameters

[in] file relative filename to append to [home_config_dir\(\)](#)

Returns

file path

Use this function for SDI configuration file provided by SDI installation packages and which cannot be overloaded by user configuration packages.

? home_config_file() [2/2]

string filesystem::home_config_file (const string & *file*)

? home_flash_dir()

const char * home_flash_dir ()

return the absolute path to SDI flash folder in home directory (VOS: \$HOME/flash/sdi). If subfolders do not already exist, they are created with the first call of this function. The flash folder is the location for files, which require write access by SDI server. Writeable configuration files are synchronized with those files of external user configuration packages by invocation of [init\(\)](#) function at SDI server startup.

Returns

absolute path to SDI flash folder for writeable files

? home_flash_file() [1/2]

std::string filesystem::home_flash_file (const std::string & *file*)

Appends a relative filename *file* to path returned by [home_flash_dir\(\)](#)

Parameters

[in] file relative filename to append to [home_flash_dir\(\)](#)

Returns

file path

[? home_flash_file\(\)](#) [2/2]

string filesystem::home_flash_file (const string & *file*)

[? home_lib_dir\(\)](#)

const char * home_lib_dir ()

return the abloslute path of lib folder in home directory (VOS: \$HOME/lib).

This library folder is used for SDI plugins and libraries coming along with SDI download packages.

Returns

absolute path to home lib folder

[? init\(\)](#)

void init ()

This function must be called at startup, before SDI server accesses other functions of the filesystem module. The function internally does the following:

1. It checks the \$HOME environment variable. If it is not provided by the system, the function sets \$HOME to working directory of SDI server, since this environment variable is referred the most filesystem functions.
2. It checks for old files of previous SDI server versions and if exist, these files were overtaken to new destination, which is expected by the recent SDI server. Old obsolete files of previous SDI server versions were removed.
3. On VOS platforms it synchronizes files, which were installed with user configuration packages. Especially those files, which require write access must be overtaken to home flash directory. For this, SDI server holds a registration file with a checksum for each file to detect, if it was overloaded by file of the user configuration package. In addition, after removal of a user configuration package, the associated files are removed again and default files from SDI configuration folder are restored.

? install_sdi_plugins()

```
unsigned short install_sdi_plugins ( bool recover = false )
```

install SDI plugins from update package, which was added to SDI update directory (see [sdi_update_dir\(\)](#)). Plugins are expected in a specified subfolder "plugin". The function is called with command "Check for update (20-1D)" using upload type UPLOAD_TYPE_PLUGIN. On Android the update package data is provided and the command is sent by Android Secure Installer. The function copies the external plugin in internal location, which is specified by [ext_plugin_dir\(\)](#). In addition, the function does not allow to install arbitrary files, therefore, it checks, if each found plugin matches the plugin pattern PLUGIN_PATTERN. After the plugins were overtaken to plugin directory, the plugins are loaded and registered for usage in SDI server. If an external plugin has the same name as an internal plugin (provided with SDI base package, see function [home_lib_dir\(\)](#)) and shall "overload" it, the internal plugin is unregistered and unloaded before the external plugin installed. Finally, the function stores a backup copy of each plugin to persistent directory (see [sdi_persist_dir\(\)](#)) to make the installed plugins recoverable for command "Factory Reset (20-22)". For command "Factory Reset (20-22)" the same function is invoked with flag `recover=true`, to restore and install the backup copies from persistent directory.

Parameters

[in] recover flag set to true to restore and install the SDI plugins from persistent directory

Returns

SDI error code (0x9000 for success, 0x64xx for error)

? install_user_configuration()

```
unsigned short install_user_configuration ( bool recover = false )
```

install user configuration from update package, which was added to SDI update directory (see [sdi_update_dir\(\)](#)). The function is called with command "Check for update (20-1D)" using upload type UPLOAD_TYPE_CONFIG_SDIEMV. On Android the update package data is provided and the command is sent by Android Secure Installer. Configuration files are expected in a specified folder structure, whereas other components than SDI (e.g. ADKEMV or ADKSEC) use a path prefix like "emv" or "sec". The function knows the internal location for each file. In addition, the function does not allow to install arbitrary files, therefore, it checks, if the found files are in internal whitelist (see table allowed_files in [filesystem.cpp](#)). After all configuration files were installed the function runs required post actions (if any), which are related to the installed files. Finally, the function stores a backup copy of each file to persistent directory (see [sdi_persist_dir\(\)](#)) to make the installed files recoverable for command "Factory Reset (20-22)". For command "Factory Reset (20-22)" the same function is invoked with flag `recover=true`, to restore and install the backup copies from persistent directory.

Parameters

[in] recover flag set to true to restore and install the configuration files from persistent directory

Returns

SDI error code (0x9000 for success, 0x64xx for error)

? log_config_dir()

```
const char * log_config_dir( )  
  
return the absolute path to folder for ADK Logging configuration files (VOS: /mnt/flash/etc/config/adk-log)  
(Android: $HOME)
```

Required for SW update on Android. On VOS it is unused.

Returns

absolute path to HOME for ADK Logging configuration files

? lookup_config_file() [1/2]

```
std::string filesystem::lookup_config_file ( const std::string & file )
```

lookup a configuration file (read-only) by its relative path `file` and return the absolute path for it. The function looks up the file at first in external configuration folder (provided by [ext_config_dir\(\)](#)). If not found there, the file is searched in SDI default configuration folder (provided by [home_config_dir\(\)](#)). The function return an empty string, if the file is not found in one of both locations.

Parameters

[in] file relative file path to look up the configuration file (e.g. "sec/sccfg.json")

Returns

absolute path of the found configuration file (e.g. "/etc/config/sdi/sec/sccfg.json" or "\$HOME/sdi/sec/sccfg.json") or an empty string, if the file was not found.

? lookup_config_file() [2/2]

```
string filesystem::lookup_config_file ( const string & file )
```

? move_file() [1/2]

```
bool filesystem::move_file ( const std::string & src,  
                           const std::string & dest  
                         )
```

helper function to move file from source `src` to destination `dest`.

Parameters

- [in] `src` source file location
- [in] `dest` destination file location

Returns

true for success, else false for error

[? move_file\(\)](#) [2/2]

```
bool filesystem::move_file ( const string & src,  
                           const string & dst  
                         )
```

[? nfc_flash_dir\(\)](#)

```
const char * nfc_flash_dir ( )
```

return the absolute path for destination folder of ADKNFC configuration files These files require write access, therefore, on Engage these are located in flash. (VOS: \$HOME/flash) (Android: \$HOME)

Returns

absolute path to HOME for ADKNFC configuration files

[? read_file\(\)](#) [1/2]

```
bool filesystem::read_file ( const char * file,  
                           std::string & data  
                         )
```

helper function to read a file into a string

Parameters

- [in] `file` name of the file to be read
- [out] data content of the file that was read

Returns

true for success, else false (file couldn't been opened)

? read_file() [2/2]

```
bool filesystem::read_file ( const char * file,  
                           string & data  
                         )
```

? remove_files() [1/2]

```
int filesystem::remove_files ( const std::vector< std::string > & files,  
                             unsigned modes = FM_Default  
                           )
```

helper function to remove multiple files. Files to be removed are specified by vector *files*.

Parameters

- [in] *files* vector of files to be removed
- [in] *modes* function operation modes, see enum [FilesModes](#)

Returns

number of files, which were removed. -1 is returned in case of error due to missing directory or file access.

? remove_files() [2/2]

```
int filesystem::remove_files ( const vector< string > & files,  
                             unsigned modes  
                           )
```

? remove_sdi_plugins()

```
unsigned short remove_sdi_plugins ( )
```

remove SDI plugins according removal file, which is looked up in SDI update directory (see [sdi_update_dir\(\)](#)). The removal file is expected in a specified subfolder "plugin". The function is called with command "Check for update (20-1D)" using upload type UPLOAD_TYPE_REMOVE_PLUGIN. On Android the update package data is provided and the command is sent by Android Secure Installer. Before removal of a plugin, the plugin is unloaded and unregistered for usage in SDI server. If a plugin is removed, which has the same name as an internal plugin in [home_lib_dir\(\)](#), the internal plugin is loaded and reactivated again. Finally, the function removes the backup copy of each plugin from persistent directory (see [sdi_persist_dir\(\)](#)) so that command "Factory Reset (20-22)" will no longer recover the plugin.

The removal file (remove.json) contains an array 'files' with a filename per plugin to remove. No path prefix is added, the function knows the internal location for each file. The filenames may also contain regular expressions to match multiple files to delete. The function does not allow to remove arbitrary files, therefore, it checks, if the regular expression matches one or more plugins is in external plugin folder before the plugin is unregistered, unloaded and removed. If a filename in the removal file does not match any existing plugin, the entry is ignored and it is proceeded with the next one. Example format for removal.json:

```
{ "files": [ "libsdiplugin.*\\.so",  
// remove all external SDI plugins ]}
```

Returns

SDI error code (0x9000 for success, 0x64xx for error)

[? remove_user_configuration\(\)](#)

```
unsigned short remove_user_configuration ( )
```

remove user configuration files according removal file, which is looked up in SDI update directory (see [sdi_update_dir\(\)](#)). The function is called with command "Check for update (20-1D)" using upload type UPLOAD_TYPE_REMOVE_CONFIG_SDIEMV. On Android the update package data is provided and the command is sent by Android Secure Installer. After removal, it runs required post actions (if any), which are related to the removed files. Finally, the function removes the backup copy of each file from persistent directory (see [sdi_persist_dir\(\)](#)) so that command "Factory Reset (20-22)" will no longer recover the files.

The removal file (remove.json) contains an array 'files' with a relative path per file to remove. The same external path representation as in update packages is used and the function knows the internal location for each file. The lines may also contain regular expressions to match multiple files to delete. The function does not allow to remove arbitrary files, therefore, it checks, if the found files are in internal whitelist (see table allowed_files). If a line in the removal file does not match any existing allowed file, the line is ignored and it is proceeded with the next line. Example format for removal.json:

```
{ "files": [ "emv/[Ee][Mm][Vv][_-]*\\.\\[Xx]\\[Mm]\\[Ll]" ,  
// remove all EMV config files "sec/sccfg.json" , "config.json" , "wh
```

Returns

SDI error code (0x9000 for success, 0x64xx for error)

[? sdi_persist_dir\(\)](#)

```
const char * sdi_persist_dir ( )
```

persistant directory to store SDI related update files for default recovery. (Android: /persist/appdata/sdi). Recently used for command "Check for update (20-1D)" and command "Factory Reset (20-22)" on Android only.

Returns

ablosulte path to persistent SDI data folder or an empty string, if not supported by plattform (e.g. Engage)

? sdi_update_dir()

```
const char * sdi_update_dir( )
```

read-only source directory for SDI related update package files. (Android: /data/secure/sdi). Recently used for command "Check for update (20-1D)" on Android only.

Returns

ablosulte path to update package folder or an empty string, if not supported by plattform (e.g. Engage)

? sys_remove_sponsor_dir()

```
const char * sys_remove_sponsor_dir( )
```

return absolute path to system directory for removal of sponsor certificates (VOS: not supported, an empty string is returned). (Android: /data/secure/sponsor -> used to store the file CRTRESET.SYS to remove the sponsor certificate).

This is recently required by SDI server for command 20-1D (Check for Update) with command type 7 (remove sponsor certificate).

Returns

absolute path to system sponsor removal directory

? tmp_dir()

```
const char * tmp_dir( )
```

return the absolute path to writeable system temp folder (VOS: /tmp).

This is recently required by SDI server to store some temporary keys for VCL.

Returns

absolute path to writeable system temp folder

? upload_install_dir()

```
const char * upload_install_dir ( bool flash = true )
```

return absolute path to upload and installation directory for download packages or certificates (VOS: /mnt/flash/install/dl or \$HOME/flash/sdi/install). (Android: \$HOME/install -> e.g. used to install the sponsor certificate).

This is recently required by SDI server to store download packages with software upload commands (20-14,20-15,20-16) and sponsor certificate installation with command 20-1B.

Parameters

[in] *flash* set to true to use home flash folder as installation directory. This parameter is relevant for V/OS only, which requires to use home flash directory to store temporary installation files for newer OS versions. This is to reduce RAM usage, since files would be usually stored to /mnt/flash/install/dl, which is a RAM disk.

Returns

absolute path to system download package installation directory

? write_file() [1/2]

```
bool filesystem::write_file ( const char * file,  
                            const std::string & data  
                           )
```

helper function to write a string into a file

Parameters

[in] *file* name of the file to be written
[out] *data* content of the string to be written

Returns

true for success, else false (file couldn't been opened)

? write_file() [2/2]

```
bool filesystem::write_file ( const char *    file,
                            const string &  data
                          )
```

Variable Documentation

? allowed_files

const struct [UpdateFiles](#) allowed_files[]

Initial value:

```
= {      { EMV_PREFIX, EMV_FLASH_CONFIG_FILES, LOC_EmvFlashDir,      ""
, "          ACT_EmvExit           }, { EMV_PREFIX, EMV_DESIRED_FILE,
" "
, "          ACT_EmvExitComplete }, { SEC_PREFIX, ADKSEC_CONFIG_FILE,
LOC_SdiExtConfigDir,      ""
, "          ACT_None            }, { " "
, "          ACT_None            }, { " "
LOC_SdiExtConfigDir,      ""
, "          ACT_AclInit         }, { " "
, "          ACT_None            }, { " "
LOC_SdiFlashDir,      ""
, "          ACT_None            }, { " "
, "          ACT_None            }, { " "
LOC_SdiFlashDir,      ""
, "          ACT_CardRanges       }, { " "
, "          ACT_None            }, { " "
LOC_SdiFlashDir,      ""
, "          ACT_LogInit          }, { " "
, "          ACT_None            }, { " "
LOC_SdiFlashDir,      ""
, "          ACT_None            } }
```

user configuration files allowed for update and removal