

File Services Toolkit

Starting with version 3.71 of SBS-CASE Tools™ the File Services Toolkit is shipped, configured, installed and ready to use. The only thing that needs to be done to use it, is to activate its resource in SBS-Pathfinder™.

The File Services Toolkit allows the programmer to manipulate files on the SBS-Pathfinder™ Server host from the remote data collection device. It will also allow the programmer to pull directory listings of file folders on the SBS-Pathfinder™ server as well as create file folders. Its last function is to upload and convert a signature that was captured from the default “vector” format to a standard BMP, JPG, GIF

The SBS-CASE Tools™ programmer must import the transactions that are associated with the File Services Toolkit before they can make use of that function in the toolkit. The names of the transactions are;

- CopyFile.c_t
- CreateDir.c_t
- DeleteFile.c_t
- ExportSigCap.c_t
- GetDirListing.c_t
- MoveFile.c_t
- RenameFile.c_t

CopyFile:

The CopyFile transaction is used to create a copy of a particular file on the SBS-Pathfinder™ server or any machine in its scope that it has privileges' to.

The screenshot shows a window titled "CopyFile - Maintenance". It has two main sections: "Transaction Attributes" and "Input Structure".

Transaction Attributes:

- Transaction Name: CopyFile
- Resource Type: Toolkit
- Remarks: (empty text box)
- There is an "Edit Attributes" button.

Input Structure:

Name	Length	Remarks
SourceName	64	
DestName	64	
SourceLocation	255	default = PF UserFiles directory
DestLocation	255	default = PF UserFiles directory

The programmer must provide the name and the location of the file that is to be copied and where it is to be copied to.

SourceName:

The Source Name is a required entry and it may be up to 64 characters in length. Its contents must contain the value of a valid Windows file name. This is the name of the file that is to be copied. If the source file name is not found, the CopyFile transaction will fail.

DestName:

The Destination Name is a required entry and it may be up to 64 characters in length. Its contents must contain the value of a valid Windows file name. When the file is copied to the destination file folder this entry will be the name of the file. It may be the same name as the source name or it may be different. If the Destination file name is already present in the destination file folder, the CopyFile transaction will fail.

SourceLocation:

The Source Location is an optional entry and it may be up to 255 characters in length. If present, its contents must contain the value of a valid Windows file folder name. This is the name of the file folder that the source file is to be copied from. If a value is not entered, then the SBS-Pathfinder™ UserFiles folder will be the default file folder used to locate the source file. If the source location name is not found, the CopyFile transaction will fail.

DestLocation:

The Destination Location is an optional entry and it may be up to 255 characters in length. If present, its contents must contain the value of a valid Windows file folder name. This is the name of the file folder that the source file is to be copied to. If a value is not entered, then the SBS-Pathfinder™ UserFiles folder will be the default file folder used to copy the source file into. If the destination location file folder is not found, the CopyFile transaction will fail.



CAST Tools Code snippet

```
/* Example of the File Services Toolkit CopyFile
Move "CompanyLogo.JPG" To TRAN.CopyFile.Input.SourceName, Left Justify
Move "CompanyLogoCopy.JPG" To TRAN.CopyFile.Input.DestName, Left Justify
Move "C:\Delivery\Files" To TRAN.CopyFile.Input.SourceLocation, Left Justify
Move "C:\Delivery\FileCopies" To TRAN.CopyFile.Input.DestLocation, Left Justify

Execute Tran 'CopyFile' w/ Confirmation
If SYSTEM.ErrorNumber Not = CONSTANT.TRANCODE.SUCCESS Then
    MsgBox "File Services Toolkit - Copy File Failed!"
End If
```

CreateDir:

The CreateDir transaction is used to create a file folder on the SBS-Pathfinder™ server or any machine in its scope that it has privileges' to.

CreateDir - Maintenance			
Transaction Attributes			
Transaction Name:	CreateDir		
Resource Type:	Toolkit		
Remarks:			
Input Structure			
Name	Length	Remarks	
 NewDirName	64		
 ParentDirPath	255	optional, defaults to PF UserFiles directory	

The programmer must provide the name of the file folder and the location of where it is to be created.

NewDirName:

The New Directory Name is a required entry and it may be up to 64 characters in length. Its contents must contain the value of a valid Windows file folder name. This is the name of the file folder that will be created. If the file folder name already exists, an error will **NOT** be raised.

ParentDirPath:

The Parent Directory Path is an optional entry and it may be up to 255 characters in length. If present, its contents must contain the value of a valid Windows file folder path. This is the name of the path that the file folder will be created in. If a value is not entered, then the SBS-Pathfinder™ UserFiles folder will be the default path used to create the file folder in. If the file folder path doesn't exist, an error will be raised.



CAST Tools Code snippet

```
/* Example of the File Services Toolkit CreateDir
Move "Files2" To TRAN.CreateDir.Input.NewDirName, Left Justify
Move "C:\Delivery" To TRAN.CreateDir.Input.ParentDirPath, Left Justify

Execute Tran 'CreateDir' w/ Confirmation
If SYSTEM.ErrorNumber Not = CONSTANT.TRANCODE.SUCCESS Then
    MsgBox "File Services Toolkit - Create Directory Failed!"
End If
```

DeleteFile:

The DeleteFile transaction is used to delete a particular file on the SBS-Pathfinder™ server or any machine in its scope that it has privileges' to.

DeleteFile - Maintenance			
Transaction Attributes			
Transaction Name:	DeleteFile		
Resource Type:	Toolkit		
Remarks:			
Input Structure			
Name	Length	Remarks	
 FileName	64		
 FileLocation	255	optional, defaults to PF UserFiles directory	

The programmer must provide the name and the location of the file that is to be deleted (sent to the recycle bin).

FileName:

The File Name is a required entry and it may be up to 64 characters in length. Its contents must contain the value of a valid Windows file name. This is the name of the file that is to be deleted. If the File Name is not present in the file location then an error will **NOT** be raised.

FileLocation:

The File Location is an optional entry and it may be up to 255 characters in length. If present, its contents must contain the value of a valid Windows file folder name. This is the name of the file folder that the file is to be deleted from. If a value is not entered, then the SBS-Pathfinder™ UserFiles folder will be the default file folder used to locate the file to be deleted. If the file location path doesn't exist, an error will be raised.





CAST Tools Code snippet

```
/* Example of the File Services Toolkit DeleteFile
Move "CompanyLogoCopy.JPG" To TRAN.DeleteFile.Input.FileName, Left Justify
Move "C:\Delivery\Files\FileCopies" To TRAN.DeleteFile.Input.FileLocation, Left Justify

Execute Tran 'DeleteFile' w/ Confirmation
If SYSTEM.ErrorNumber Not = CONSTANT.TRANCODE.SUCCESS Then
    MessageBox "File Services Toolkit - Delete File Failed!"
End If
```

ExportSigCap:

The ExportSigCap transaction is used to upload (export) the signature from a remote data collection device to the SBS-Pathfinder™ Server (or any machine in its scope that it has privileges' to) and convert the signature format from the default vector format to a more standard format. Currently supported formats are bmp, png, jpeg, and gif.

ExportSigCap - Maintenance			
Transaction Attributes			
Transaction Name:	ExportSigCap		
Resource Type:	Toolkit		
Remarks:			
Input Structure			
Name	Length	Remarks	
 ExportName	64	Export file name including extension	
 ExportLocation	255	defaults to PF UserFiles directory if empty	
 OverwriteYN	1	defaults to N	
 Signature	3072		

The programmer must provide the signature, signature file name and the location of the signature that is to be exported. An overwrite option is also provided to write over signatures that are already present.

ExportName:

The Export Name is a required entry and it may be up to 64 characters in length. Its contents must contain the value of a valid Windows file name. This is the name of the file that the signature is to be stored in. The extension that is given to the file will define the format that the signature is exported to.

ExportLocation:

The Export Location is an optional entry and it may be up to 255 characters in length. If present, its contents must contain the value of a valid Windows file folder name. This is the name of the file folder that the signature is to be stored in. If a value is not entered, then the SBS-Pathfinder™ UserFiles folder will be the default file folder used to store the signature file. If the export location does not exist, the ExportSigCap transaction will fail.

OverwriteYN:

The Overwrite is an optional entry and it may only contain the values Y (YES) or N (NO). If an entry isn't present then the default value of N will be used. If a Y is present, then an error will not occur if the signature file is already present on the SBS-Pathfinder™ server. If an N is entered or the default value of N is used, if the file is

already present on the SBS-Pathfinder™ server, then an error will be raised and the existing file will not be overlaid.

Signature:

The contents of the CASE Tools variable that the vector format signature was captured into using the signature capture control. If no signature is present, the ExportSigCap transaction will fail.

CAST Tools Code snippet

```
/* Example of the File Services Toolkit ExportSigCap
Show Panel 'SignaturePanel'
Move "SignatureFileName.BMP" To TRAN.ExportSigCap.Input.ExportName, Left Justify
Move "C:\Delivery\Files" To TRAN.ExportSigCap.Input.ExportLocation, Left Justify
Move "Y" To TRAN.ExportSigCap.Input.OverwriteYN, Left Justify
Move PANEL.SignaturePanel.sigSignature.Signature To TRAN.ExportSigCap.Input.Signature, Left Justify

Execute Tran 'ExportSigCap' w/ Confirmation
If SYSTEM.ErrorNumber Not = CONSTANT.TRANCODE.SUCCESS Then
    MessageBox "File Services Toolkit - Export Signature Failed!"
End If
```

GetDirListing:

The GetDirListing transaction is used to return a directory listing of a particular file folder on the SBS-Pathfinder™ server or any machine in its scope that it has privileges' to. It will return the contents of the file folder into a file that the user has defined on the remote data collection device. The defined file structure must match the result structure of the GetDirListing transaction. The GetDirListing is used before most of the file manipulation commands so that you can verify what you intend to do will work before you execute that transaction.

[illegible]

The programmer must provide the name of the file folder (and its path) as well as an optional filter. Wild cards are allowable in the filter such as all text files *.TXT. If the successful execution of this transaction returns no data then the programmer will receive a System.ErrorNumber of "NO DATA" and not "SUCCESS" or "FAILED".

DirectoryPath:

The Directory Path of the file folder that is to be examined is a required entry and it may be up to 255 characters in length. Its contents must contain the value of a valid Windows file folder name. This is the name of the file folder that will be listed. If the Directory Path does not exist, the GetDirListing transaction will fail.

OptionalFilter:

The filter is an optional entry and it may contain up to 64 characters in length. Its contents must contain the value of a valid Windows rule that would be used in a Windows "DIR" command.

Tools Code snippet

```
/* Example of the File Services Toolkit GetDirListing
Move "C:\Delivery\Files" To TRAN.GetDirListing.Input.DirectoryPath, Left Justify
Move LOCAL.SPACES To TRAN.GetDirListing.Input.OptionalFilter, Left Justify

Execute Tran 'GetDirListing' w/ File Results
If SYSTEM.ErrorNumber = CONSTANT.TRANCODE.NO_DATA Then
    /* The file folder may be empty of nothing matches your filter
Else If SYSTEM.ErrorNumber Not = CONSTANT.TRANCODE.SUCCESS Then
    MessageBox "File Services Toolkit - Get Directory Listing Failed!"
End If
```

Contents of Data Collection Device File after transaction

Filename	Size
ACME04272017142940-ReferenceExport.CSV	163511
ACME05022017162849-DCExport.CSV	162849
Company Logo.JPG	162849




File: DirectoryListing																													
FileSize										ModifiedDate										IsDirectory	IsReadOnly								
0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	1	1
0	0	0	0	0	0	0	0	2	2	5	2	0	1	7	-	0	4	-	2	7	0	2	:	2	9	:	4	2	N
0	0	0	0	0	0	0	0	2	8	3	2	0	1	7	-	0	4	-	2	8	0	4	:	3	5	:	1	2	N
0	0	0	0	0	0	0	0	2	7	4	2	0	1	7	-	0	5	-	0	2	0	4	:	2	9	:	5	0	N
0	0	0	0	1	1	0	1	5	4	2	0	1	7	-	0	5	-	0	2	0	4	:	4	7	:	0	8	N	N

Contents of file folder using Windows Explorer

Computer > OSDisk (C:) > Delivery > Files					
<div> <div>Include in library</div> <div>Share with</div> <div>Slide show</div> <div>Burn</div> <div>New folder</div> </div>					
	Name	Date	Type	Size	Tags
es	ACME05022017162849-DCExport.CSV	5/2/2017 4:29 PM	Microsoft Office E...	1 KB	
	ACME04282017163511-ReferenceExport.CSV	4/28/2017 4:35 PM	Microsoft Office E...	1 KB	
	ACME04272017142940-ReferenceExport.CSV	4/27/2017 2:29 PM	Microsoft Office E...	1 KB	
	CompanyLogo.JPG	4/26/2017 1:46 PM	JPEG image	108 KB	

MoveFile:

The MoveFile transaction is used to move a particular file on the SBS-Pathfinder™ server or any machine in its scope that it has privileges' to, to a different file folder. After successful execution of the MoveFile transaction, the Source File Folder path will no longer contain the file. It will only be present in the destination path.

MoveFile - Maintenance			
Transaction Attributes			
Transaction Name:		MoveFile	
Resource Type:		Toolkit	
Remarks:			
Input Structure			
Name	Length	Remarks	
 FileName	64		
 SourcePath	255	defaults to PF UserFiles directory if blank	
 DestinationPath	255	defaults to PF UserFiles directory if blank	

The programmer must provide the name and the location of the file that is to be moved and where it is to be moved to. The MoveFile does not provide the option of changing the file name on the move.

FileName:

The File Name is a required entry and it may be up to 64 characters in length. Its contents must contain the value of a valid Windows file name. This is the name of the file that is to be moved. If the file name is not found or if the file is already in the destination path, the MoveFile transaction will fail.

SourcePath:

The Source Path is an optional entry and it may be up to 255 characters in length. If present, its contents must contain the value of a valid Windows file folder name. This is the name of the file folder that the source file is to be moved from. If a value is not entered, then the SBS-Pathfinder™ UserFiles folder will be the default file folder used to locate the file name to be moved. If the source path is not found, the MoveFile transaction will fail.

DestinationPath:

The Destination Path is an optional entry and it may be up to 255 characters in length. If present, its contents must contain the value of a valid Windows file folder name. This is the name of the file folder that the source file is to be moved to. If a value is not entered, then the SBS-Pathfinder™ UserFiles folder will be the default file folder used to move the file name to. If the destination path is not found, the MoveFile transaction will fail.




CAST Tools Code snippet

```
/* Example of the File Services Toolkit MoveFile
Move "CompanyLogoCopy.JPG" To TRAN.MoveFile.Input.FileName, Left Justify
Move "C:\Delivery\Files" To TRAN.MoveFile.Input.SourcePath, Left Justify
Move "C:\Delivery\Files\FileCopies" To TRAN.MoveFile.Input.DestinationPath, Left Justify

Execute Tran 'MoveFile' w/ Confirmation
If SYSTEM.ErrorNumber Not = CONSTANT.TRANCODE.SUCCESS Then
    MsgBox "File Services Toolkit - Move File Failed!"
End If
```

RenameFile:

The RenameFile transaction is used to rename a particular file on the SBS-Pathfinder™ server or any machine in its scope that it has privileges' to. After successful execution of the RenameFile transaction, the File Path will no longer contain the current file name. It will only contain the new file name.

RenameFile - Maintenance			
Transaction Attributes			
Transaction Name:	RenameFile		
Resource Type:	Toolkit		
Remarks:			
Input Structure			
Name	Length	Remarks	
 CurrentFileName	64		
 NewFileName	64		
 FilePath	255	default = PF UserFiles directory	

The programmer must provide the current and new file name and the file path of the file that is to be renamed.

CurrentFileName:

The Current File Name is a required entry and it may be up to 64 characters in length. Its contents must contain the value of a valid Windows file name. This is the name of the file that is to be renamed. If the current file name is not found in the file path, the RenameFile transaction will fail.

NewFileName:

The New File Name is a required entry and it may be up to 64 characters in length. Its contents must contain the value of a valid Windows file name. This is the new name of the file after it has been renamed. If the new file name is already in the file path, the RenameFile transaction will fail.

FilePath:

The File Path is an optional entry and it may be up to 255 characters in length. If present, its contents must contain the value of a valid Windows file folder name. This is the name of the file folder that the current file name is located in. If a value is not entered, then the SBS-Pathfinder™ UserFiles folder will be the default file folder used to locate the file name to be renamed. If the file path is not found, the RenameFile transaction will fail.

CAST Tools Code snippet

```
/* Example of the File Services Toolkit RenameFile  
Move "CompanyLogoCopy.JPG" To TRAN.RenameFile.Input.CurrentFileName, Left Justify  
Move "CompanyLogoCopy2.JPG" To TRAN.RenameFile.Input.NewFileName, Left Justify  
Move "C:\Delivery\Files\FileCopies" To TRAN.RenameFile.Input.FilePath, Left Justify  
  
Execute Tran 'RenameFile' w/ Confirmation  
If SYSTEM.ErrorNumber Not = CONSTANT.TRANCODE.SUCCESS Then  
    MessageBox "File Services Toolkit - Move File Failed!"  
End If
```