

## Remote Printing SDK for Thinfinity

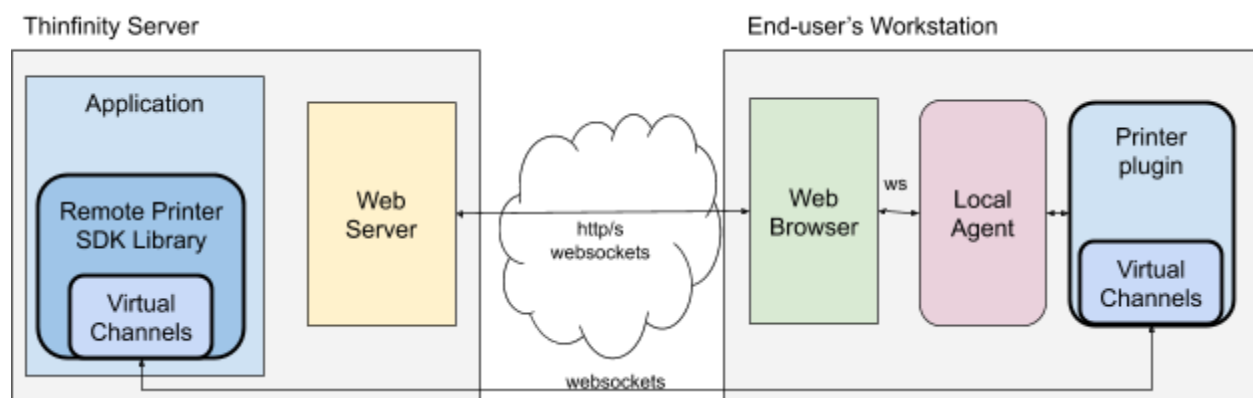
### Objective

The Remote Printing SDK allows you to programmatically send commands and documents to the end-user's printer. Currently, raw printers are supported.

### Components

<b>Remote Printer SDK Library</b> Thinfinity.RemotePrinter.dll	This module presents an COM API to be consumed by a Windows application running under Thinfinity VirtualUI or Thinfinity Remote Desktop.
<b>Thinfinity Local Agent and Local Printer Plugin</b>	Executable and library needed to work as a nexus between the web browser and local or network resources, otherwise inaccessible due to browser's security restrictions.
<b>Thinfinity Virtual Channels</b>	A proprietary Virtual Channel System used to communicate the Remote Printer SDK with the Local Printer plugin.

### Basic Scheme



## The Remote Printer SDK tasks:

1. Retrieve the printer list.
2. Prepare the connection for printing.
3. Send data to the printer
4. Inform the end of the printing process.
5. In case of any error must be Cancel the printing or if the user wants.
6. In case of any error, can get it more details using LastError method

## API

The following table shows the methods of the Remote Printer SDK.

### Methods

<b>GetPrinters</b>	<b>GetPrinters</b> (const Delimiter: WideString; out Printers: WideString): WordBool;		
	Retrieve all printer names detected on the end-user's side. Returns a string delimited by the Delimiter parameter.		
	<b>Returns:</b> True if is successful and False in case of error.		
	<b>Parameters:</b>		
	<b>Name</b>	<b>Type</b>	<b>Description</b>
	<b>Delimiter</b>	WideString	Character or string used as delimiter of the printer names on Printers param.
<b>LastError</b>	<b>Printers (out)</b>	WideString	Out parameter filled with the printer names delimited by Delimiter param
	<b>LastError</b> (out ErrorCode: Integer; out ErrorMessage: WideString);		
	Retrieves the last ErrorCode and ErrorMessage. Can be used when a call to any method returns False.		
	<b>Returns:</b> nothing		
	<b>Parameters</b>		
	<b>Name</b>	<b>Type</b>	<b>Description</b>

	<b>ErrorCode (out)</b>	Integer	Out last error code. If ErrorCode is 0, there is not error
	<b>ErrorMessage (out)</b>	WideString	Out last error message.
<b>BeginDoc</b>	<b>BeginDoc</b> (PrintType: Integer; const PrinterName: WideString; const DocName: WideString; Encoding: Integer; out DocID: WideString): WordBool;		
	It makes the connection with the printer and initializes the print job. Creates an unique Document Id to identify a print job in subsequent calls.		
	<b>Returns:</b> True if the communication and actions on the selected printer was sent successful.		
	<b>Parameters</b>		
	<b>Name</b>	<b>Type</b>	<b>Description</b>
	<b>PrintType</b>	Integer	Determines the type of printing. Now support PRINT_TYPE_RAW = 1
	<b>PrinterName</b>	WideString	The name that identifies the printer.
	<b>DocName</b>	WideString	Name of the printer job to be created on the print spooler.
	<b>Encoding</b>	Integer	Identifies the format of the document to print.. PRINT_ENCODE_ANSI = 0 PRINT_ENCODE_UTF8 = 1
<b>Print</b>	<b>DocID (out)</b>	WideString	This out parameter is filled with a unique document id to be used in subsequent calls.
	<b>Print</b> (const DocID: WideString; const Data: WideString): WordBool;		
	Sends data to the printer using the document identifier obtained using BeginDoc.. This method can be called as many times as needed to send commands or data until the entire print job is completed.		
	<b>Returns:</b> True if nothing went wrong.		
	<b>Parameters</b>		

	Name	Type	Description
	<b>DocID</b>	WideString	The document identifier obtained by BeginDoc
	<b>Data</b>	WideString	Data to be sent to the Printer.
<b>EndDoc</b>	<b>EndDoc</b> (const DocID: WideString): WordBool		
	Ends the print job. This completes the print process and sends the print job to the spooler.		
	<b>Returns:</b> True if the work was sent to the printer spooler.		
	<b>Parameters</b>		
	<b>Name</b>	<b>Type</b>	<b>Description</b>
	<b>DocID</b>	WideString	The document identifier obtained by BeginDoc
<b>Abort</b>	<b>Abort</b> (const DocID: WideString): WordBool		
	Cancels the printer job. This method must be called in case of the methods Print or EndDoc return False.		
	<b>Parameters</b>		
	<b>Name</b>	<b>Type</b>	<b>Description</b>
	<b>DocID</b>	WideString	The document identifier obtained by BeginDoc
<b>PrintFile</b>	<b>PrintFile</b> (PrintType: Integer; const FileName: WideString; const PrinterName: WideString): WordBool;		
	Sends the file to the print spooler of the remote printer. In case of PrinterName is Empty the default remote printer is used.		
	<b>Returns:</b> True if the work was sent to the printer spooler.		
	<b>Parameters</b>		
	<b>Name</b>	<b>Type</b>	<b>Description</b>
	<b>PrintType</b>	Integer	Determines the type of printing.

			Now support: PRINT_TYPE_XPS = 3 PRINT_TYPE_PDF = 4 PRINT_TYPE_DIRECT = 5
	<b>FileName</b>	WideString	Full FileName of the file to Print.
	<b>PrinterName</b>	WideString	The name that identifies the printer.