

Installation

Stand Alone Installation

Most users will install SRP Utilities using the SRP Utilities Installer downloaded from the website. The installer places the SRPUtilities.dll into your OpenInsight directory and adds several modules to your application. Simply follow the install prompts to complete the process. You will be prompted to enter the SYSPROG username and password since the components will be installed into the SYSPROG application.

RDK Installation

The website does not provide an RDK, but we are willing to provide you with one upon request. Usually, this is only needed if, for some reason, the stand alone installation fails to execute. Our RDKs always contain a subdirectory for each version of OI. In other words, the zip file will contain an RDK for each version of OI. To install one of our RDKs, just follow these simple steps:

1. Extract the ZIP file to an empty directory.
2. From an OpenInsight command prompt, type "RUN RDKINSTALL <DIR>" where <DIR> is the directory containing the RDK that **matches your version of OI**.
3. Verify that all the components (see below) were installed.

Note that there will not be a directory for each minor release of OpenInsight. For instance, both OpenInsight versions 7.2 and 7.2.1 will use the 7.2 subfolder.

Components

The following files are installed into the OpenInsight directory:

File	Description
SRPUtilities.dll	Contains optimized SRP Utilities API execution logic.
SRP_Utilities.chm	The SRP Utilities help document.

The following entities are installed to the SYSPROG application:

Type	Entity	Description
Application Rows	SYSOBJ:STRUCT_MINMAXINFO	MinMaxInfo WinAPI structure definition
	SYSOBJ:STRUCT_SRP_PROCESS_INFORMATION	ProcessInformation WinAPI structure definition used by SRP_Run_Command
	SYSOBJ:STRUCT_SRP_SECURITY_ATTRIBUTES	SecurityAttributes WinAPI structure definition used by SRP_Run_Command
	SYSOBJ:STRUCT_SRP_STARTUPINFO	StartupInfo WinAPI structure definition used by SRP_Run_Command
	SYSPROCS:DLL_SRP_UTILITIES	DLL Definitions for SRPUtility.dll
	SYSREPOSEVENTEXES: SYSPROG_GETMINMAXINFO..OIWIN_	WM_GETMINMAXINFO message handler
	SYSREPOSEVENTEXES: SYSPROG_SRP_ONSYSCOLORCHANGE..OIWIN_	WM_SYSCOLORCHANGE message handler
	SYSREPOSRELEASES:SYSPROG_SRP_UTILITIES	Deployment Definition for SRP Utilities RDK
	SYSREPOSVIEWS:SYSPROG_SRP_UTILITIES	Repository View for SRP Utilities RDK
DLLs	SRPUTILITIES	Entity Pointer to SRPUtilities.dll file
OpenInsight Form Executables	SRP_METRICS_VIEWER	The SRP Metrics Viewer tool
Stored Procedure Debug Tables	SRP_UTILITIES_SAMPLE	The debug information for SRP_Utilities_Sample
Stored Procedure Executables	SETWINDOWPOS	DLL Call to SetWindowPos WinAPI
	SRPCLOSEHANDLE	DLL Call to CloseHandle WinAPI

	SRPCREATEPIPE	DLL Call to CreatePipe WinAPI
	SRPCREATEPROCESS	DLL Call to CreateProcess WinAPI
	SRPDUPLICATEHANDLE	DLL Call to DuplicateHandle WinAPI
	SRPGETCURRENTPROCESS	DLL Call to GetCurrentProcess WinAPI
	SRPGETLASTERROR	DLL Call to GetLastError WinAPI
	SRPPEEKNAMEDPIPE	DLL Call to PeekNamedPipe WinAPI
	SRPREADFILE	DLL Call to ReadFile WinAPI
	SRPREGCLOSEKEY	DLL Call to RegCloseKey WinAPI
	SRPREGCREATEKEY	DLL Call to RegCreateKeyEX WinAPI
	SRPREGDELETEKEY	DLL Call to RegDeleteKey WinAPI
	SRPREGDELETEVALUE	DLL Call to RegDeleteValue WinAPI
	SRPREGENUMKEY	DLL Call to RegEnumKeyEx WinAPI
	SRPREGENUMVALUE	DLL Call to RegEnumValue WinAPI
	SRPREGOPENKEY	DLL Call to RegOpenKeyEx WinAPI
	SRPREGQUERYVALUE	DLL Call to RegQueryValueEx WinAPI
	SRPREGSETVALUE	DLL Call to RegSetValueEx WinAPI
	SRPUTILITIESAPI_CLEANARRAY	DLL Call to SRPCleanArray in SRPUtilities.dll
	SRPUTILITIESAPI_COMADDPARAM	DLL Call to SRPComAddParam in SRPUtilities.dll
	SRPUTILITIESAPI_COMCALL	DLL Call to SRPComCall in SRPUtilities.dll
	SRPUTILITIESAPI_COMCLEARPARAMS	DLL Call to SRPClearParams in SRPUtilities.dll
	SRPUTILITIESAPI_COMCREATE	DLL Call to SRPCreate in SRPUtilities.dll
	SRPUTILITIESAPI_COMGET	DLL Call to SRPGet in SRPUtilities.dll
	SRPUTILITIESAPI_COMOUTPUTGET	DLL Call to SRPOutputGet in SRPUtilities.dll
	SRPUTILITIESAPI_COMOUTPUTSIZE	DLL Call to SRPOutputSize in SRPUtilities.dll
	SRPUTILITIESAPI_COMPARAMGET	DLL Call to SRPParmGet in SRPUtilities.dll
	SRPUTILITIESAPI_COMPARAMSIZE	DLL Call to SRPParmSize in SRPUtilities.dll
	SRPUTILITIESAPI_COMRELEASE	DLL Call to SRPRelease in SRPUtilities.dll
	SRPUTILITIESAPI_COMSET	DLL Call to SRPSet in SRPUtilities.dll
	SRPUTILITIESAPI_CRYPTODECODE	DLL Call to SRPCryptoDecode in SRPUtilities.dll
	SRPUTILITIESAPI_CRYPTOENCODE	DLL Call to SRPCryptoEncode in SRPUtilities.dll
	SRPUTILITIESAPI_CRYPTOHASH	DLL Call to SRPCryptoHash in SRPUtilities.dll
	SRPUTILITIESAPI_CRYPTOOUTPUTGET	DLL Call to SRPCryptoOutputGet in SRPUtilities.dll
	SRPUTILITIESAPI_CRYPTOOUTPUTSIZE	DLL Call to SRPCryptoOutputSize in SRPUtilities.dll
	SRPUTILITIESAPI_JOINARRAYS	DLL Call to SRPJoinArrays in SRPUtilities.dll
	SRPUTILITIESAPI_JOINARRAYS2	DLL Call to SRPJoinArrays2 in SRPUtilities.dll
	SRPUTILITIESAPI_MATH	DLL Call to SRPMath in SRPUtilities.dll
	SRPUTILITIESAPI_MATHOUTPUTEXPONENT	DLL Call to SRPMathOutputExponent in SRPUtilities.dll
	SRPUTILITIESAPI_MATHOUTPUTGET	DLL Call to SRPMathOutputGet in SRPUtilities.dll
	SRPUTILITIESAPI_MATHOUTPUTSIGNIFICANTDIGITS	DLL Call to SRPMathOutputSignificantDigits in SRPUtilities.dll
	SRPUTILITIESAPI_RELEASEARRAY	DLL Call to SRPReleaseArray in SRPUtilities.dll
	SRPUTILITIESAPI_REORDERARRAY	DLL Call to SRPReorderArray in SRPUtilities.dll

	SRPUTILITIESAPI_ROTATEARRAY	DLL Call to SRPRotateArray in SRPUtilities.dll
	SRPUTILITIESAPI_SAVESCREENSHOT	DLL Call to SRPSaveScreenshot in SRPUtilities.dll
	SRPUTILITIESAPI_SORTARRAY	DLL Call to SRPSortArray in SRPUtilities.dll
	SRPUTILITIESAPI_TASKBARSETGROUPTITLE	DLL Call to SRPTaskbarSetGroupTitle in SRPUtilities.dll
	SRPUTILITIESAPI_TCPCLIENTCLOSE	DLL Call to SRPTcpClientClose in SRPUtilities.dll
	SRPUTILITIESAPI_TCPCLIENTCLOSESES	DLL Call to SRPTcpClientSES in SRPUtilities.dll
	SRPUTILITIESAPI_TCPCLIENTCONNECT	DLL Call to SRPTcpClientConnect in SRPUtilities.dll
	SRPUTILITIESAPI_TCPCLIENTSEND	DLL Call to SRPTcpClientSend in SRPUtilities.dll
	SRPUTILITIESAPI_TCPCLIENTSENDCOMMAND	DLL Call to SRPTcpClientSendCommand in SRPUtilities.dll
	SRPUTILITIESAPI_XMLEXTRACT	DLL Call to SRPXmlExtract in SRPUtilities.dll
	SRPUTILITIESAPI_XMLOUTPUTGET	DLL Call to SRPXmlOutputGet in SRPUtilities.dll
	SRPUTILITIESAPI_XMLOUTPUTSIZE	DLL Call to SRPXmlOutputSize in SRPUtilities.dll
	SRPWAITFORSINGLEOBJECT	DLL Call to WaitForSingleObject WinAPI
	SRP_CLEAN_ARRAY	BASIC+ routine for cleaning arrays
	SRP_COM	BASIC+ routine for using COM objects in any version of OI
	SRP_COPY_MEMORY	DLL Call to SRPCopyMemory in SRPUtilities.dll
	SRP_DECODE	BASIC+ routine for decoding data
	SRP_ENCODE	BASIC+ routine for encoding data
	SRP_EXTRACT_XML	BASIC+ routine for extracting data out of XML using XPath
	SRP_HASH	BASIC+ routine for generating hashes
	SRP_JOIN_ARRAYS	BASIC+ routine for merging two arrays into a new array
	SRP_MATH	BASIC+ routine for performing arbitrary precision math
	SRP_METRICS_VIEWER_EVENTS	BASIC+ commuter module for SRP Metrics Viewer tool
	SRP_PROCESS_MINMAXINFO	Event handler for WM_GETMINMAXINFO
	SRP_PROCESS_ONSYSCOLORCHANGE	Event handler for WM_SYSCOLORCHANGE
	SRP_REGISTRY	BASIC+ routine for using the registry
	SRP_REORDER_ARRAY	BASIC+ routine for rearranging an array
	SRP_ROTATE_ARRAY	BASIC+ routine for rotating an array
	SRP_RUN_COMMAND	BASIC+ routine for running commands or executables
	SRP_SAVE_SCREENSHOT	BASIC+ routine for saving a screenshot of a window to a bitmap file
	SRP_SET_MINMAXINFO	BASIC+ routine for setting a window's size limits
	SRP_SET_SYSCOLORCHANGE	BASIC+ routine for keeping a window's colors up to date
	SRP_SHOW_WINDOW	BASIC+ routine for showing and adjusting windows
	SRP_SORT_ARRAY	BASIC+ routine for sorting arrays
	SRP_TASKBAR	BASIC+ routine for working with the taskbar
	SRP_TCPCLIENT	BASIC+ routine for connecting to remote sockets
	SRP_UTILITIES_SAMPLE	BASIC+ routine demonstrating several functions
	SYSPROG_GETMINMAXINFO_OIWIN	Backup copy of SYSPROG_GETMINMAXINFO..OIWIN_ in SYSREPOSEVENTEXES
	SYSPROG_SRP_ONSYSCOLORCHANGE_OIWIN	Backup copy of SYSPROG_ONSYSCOLORCHANGE..OIWIN_ in SYSREPOSEVENTEXES

Stored Procedures	SRP_UTILITIES_SAMPLE	Source code demonstrating several functions
Windows Help Files	SRP_UTILITIES	Entity Pointer to SRP_Uilities.chm help file

SRPUtilities.dll

The SRPUtilities.dll must reside either in your OpenInsight directory or in your Windows System32 folder. If, for any reason, this file is missing, then download the installation from our website to reinstall. Note that you will never make direct calls to this DLL. Instead, many of the SRP Utilities functions make calls to the DLL for efficient processing.