

WebFront for Service Manager Deployment Guide

Gridpro AB Rev: 2.10.7509 (SCSM 2012 versions) & 3.0.7509 (SCSM 2016 & later) Published: August 2020

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Prerequisites

WebFront for Service Manager is a web interface for System Center Service Manager. A WebFront installation therefore requires a Microsoft System Center Service Manager installation in the environment to work properly.

Server Platform Requirements

- Minimum Microsoft Windows Server 2012
- Microsoft System Center 2012 Service Manager Console or later
- Web Server Role must be installed with the below minimum Web Server Role Services installed

	Web Server Role Services				
Common HTTP Features	Application Development	Health and Diagnostics	Security	Performance	Management Tools
Static Content Default Document Directory Browsing HTTP Errors	ASPNET 4.7' NET Extensibility 4.7' ISAPI Extensions ISAPI Filters	HTTP Logging Request Monitor	Windows Authentication Request Filtering	Static Content Compression Dynamic Content Compression	IIS Management Console IIS 6 Management Compatibility IIS 6 Metabase Compatibility
Features					
.NET Framework 4.7 Features*	ASPNET 47"				

* Version 4.5 on Windows Server 2012; Version 4.6 on Windows Server 2016; Version 4.7 on Windows Server 2019

Client Platform Requirements

- Browsers
 - o Internet Explorer 7 or later
 - o Mozilla Firefox 3.6 or later
- Silverlight 5

Important: If you are installing or upgrading WebFront in a Service Manager 2012 environment, please make sure you use a version that is lower than 3.0. If you are on Service Manager 2016 or later, please make sure you use an installer with a higher version number than 3.0. If you have any questions, please contact support@gridprosoftware.com.

Windows Server

Server Configuration

The following section will describe the minimum Web Server Role Services that needs to be installed to enable WebFront to work correctly. On the server that will host WebFront for Service Manager, perform the following steps.

	Click Start – Server Manager	
	Server Manager Server Manager Server Manager Server Manager Multicod Server Add server Add server Add server Add other servers to manage Add other servers to manage Add other servers to manage Add other servers to cloud services Lawwwer Server to cloud services Lawwwer	Click Add Roles and features
	Add Roles and Fatures Ward -	Click Next
	Add Roles and Fortunes Woard -	Click Next
		2

A da fales and features Wated Sclect destination server Before You Segin Installation Type Before You Segin Confirmation Reach Before You Segin Before Before You Segin Before Befor	Click Next
Add Adde and Features Woodd	<image/>
<complex-block></complex-block>	Check minimum required features according to the left screenshot Click Add features when the below wizard appears



Microsoft Silverlight 5 Installation (Optional)

To be able to verify WebFront functionality using the web browser on the server, Silverlight 5 needs to be installed. This is optional and another computer that has Silverlight 5 installed can be used instead.



Installation

WebFront for Service Manager can be installed on the same server as the Service Manager Management server role as well as installed on a remote server. This section is a basic step-by-step instruction how to install WebFront for Service Manager software in both scenarios. The only difference is the Active Directory configuration that needs to be done in the remote server scenario.

WebFront for Service Manager

WebFront for Service Manager Setup checks prerequisites if you get an error during setup please verify that you have fulfilled the prerequisites.

	IMPORTANT: Login using a user account that is a member of the local server administrator group and has been assigned the SCSM Administrator role in Service Manager.		
	Run WebFront for Service Manager vX.X.XXXX.exe		
	Vise Account Control		
	WebFront for Service Manager Setup Welcome to the WebFront for Service Manager Setup Plase wat while the setup prepares to guide you through the installation. Olick Next Click Next		
NOTE:	 If you recieve an error message that states "Unable to retrieve IIS .NET 4 Application Pools" this is because there are no application pools configured for .NET Framework 4 on the Web server. This is probably caused by that the Web server role was installed after .NET Framework 4 installation and no application pools was created by the .NET Framework 4 setup. These applications pools can be created by repairing .NET Framework 4 installation. Follow the instructions below to correct the problem: Open Control Panel Click Uninstall a Program Select Microsoft .NET Framework 4 Extended 		
	4. Click Uninstall/Change		
	5. Select Repair Microsoft .NET Framework 4 Extended to its orignal state then click Next		

	6. Click Finish	
_	 Restart WebFront Setup and the error sh 	ould not reoccur
	WebFront for Service Manager Setup Image: Construct Construte Construct Construct Construct Construct Construct Cons	Read Software License Agreement carefully and if you accept the terms check I accept the terms in the License Agreement, then click Next
) WebFront for Service Manager Setup	Click Next
	Internet Information Server Settings Select Web site, Witual directory name and Application pool then click Next. Click Back to eview or change any of your installation settings. Click Cancel to ext. Website: Default Web Site Virtual Directory Name: WebFront Application Pool: INET v4.5 Back Next Cancel	NOTE : Leave the default values if you don't have any specific requirements
	WebFront for Service Manager Setup Image: Connection Settings Service Manager Connection Settings Type in Service Manager management server fully qualified domain name and then click Next. Click Back to review or change any of your installation settings. Click Cancel Management Server FQDN Name: Imagement Server FQDN Name: Imagement Server FQDN Name: Imagement Server FQDN Name:	Specify Management Server fully qualified domain name (FQDN) servername, then click Next

19 WebFront for Service Manager Setup	Select default language from	
Language Settings	dropdown list, then click Next	
Select WebFront default language and you also have the option to force selected language then click Next. Click Back to review or change any of your installation settings. Click Cancel to exit.		
Default Language English v [Force Language]		
Back Next Cancel		
波 WebFront for Service Manager Setup 💻 🗖 🗙	Click Install	
Ready to install WebFront for Service Manager		
Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit.		
Back Install Cancel		
WebFront for Service Manager Setup	Click Finish	
Completed the WebFront for Service Manager installation		
Click the Finish button to exit.		
Back Finish Cancel		
An additional last step is configuring the that allow you to get a direct URL to a W		
task in WebFront or the Standard Conso		
Click Start – All Programs – Microsoft Sy	stem Center – Service Manager –	
 Service Manager Console		
Click Administration tab		
In the right pane click Settings		
Double-click WebFront Settings in the middle pane		

1		
9	WebFront Settings – 🗆 🗙	
General	▲ General	
СТІ	WebFront Url:	
	http://sm.litware.local/webfront/	
	Example: http://webfront.gridpro.se/webfront/	
	✓CTI	
Type the URL to your WebFront site in the WebFront URL field. Then click OK to save the settings		
	URL needs to end with a trailing slash.	

Active Directory Configuration (Only remote installation)

IMPORTANT: This step is only necessary if WebFront is installed on a separate server than the Service Manager Management server. Gridpro WebFront for Service Manager is performing an impersonation of the actual user when working against the Service Manager Management server. In other words, the user's credentials are used to access Service Manager. This way the normal security settings in Service Manager are implied in WebFront. So, the Service Management service account must be delegated the permission to be able to impersonate in Active Directory. The section below shows a stepby-step instruction how this is accomplished.

On a	a computer with Active Directory User	rs and Computers console installed	
	Open Active Directory Users and Computers console		
	Find the Computer object for the ser	rver hosting WebFront for Service Manager	
	Right-Click Computer object and sel	ect Properties	
	Click Delegation tab		
	General Operating System Member 0f Delegation Location Managed By Dial-in Delegation is a security-sensitive operation, which allows services to act on behalf d'another user. Do not hust this computer for delegation to any service (Kerberos only) Trust this computer for delegation to any service (Kerberos only) Image: Trust this computer for delegation to any service (Kerberos only) Trust this computer for delegation to any service (Kerberos only) Image: Trust this computer for delegation to any service (Kerberos only) Trust this account can present delegated credentials: Service Type User or Computer Post Service Type User or Computer Post Expanded Add Remove	Select Trust this computer for delegation to specified services only, then select Use any authentication protocol	
	Click Add		
	Add Services 2 X To allow services to be delegated for a user or computer, select the appropriate users or computers, and then click the services. To select one or more user or computer names, click Users or Computers Available services: Service Type User or Computer Port Service Type User or Computer Port Service Name D Service Type User or Computer Port Service Name D Select All OK Cancel	Click Users or Computers	

Select Users or Computers ? × Select Users Computers ? × Users, Computers, Built's security principals, or Other objects Object Types From this location:		ver are using fo t <u>a Access Serv</u> to verify the nar opening the Ser	or running <u>ice</u> service, me and rvices snap-
Log On As column for the System Cente			g as Local
System you should select the computer	r account of the WebFroi	nt server.	
Name A		Stat Startup T	Log On As
System Center Data Access Service Microsoft Sy:	stem Center Data Access Service.	Started Automatic Started Automatic	GRIDPRO\SMservic Local System
	er Management Configuration Service	Started Automatic	GRIDPRO\SMservio
Add Services ? X To select one or more user or computer, select the appropriate users or computers, and then click the services. Users or Computers To select one or more user or computer names, click Users or Computers Available services: Service Type Service Type User or Computer MSQMSdkSvc SM1 gridpro.se Image: Select All OK	Select Service Type N OK NOTE: If the Available se configured service acco Center Data Access Serv permission to register its Please correct the probl	ervices box is en unt running the vice has not eno s SPN in Active [npty your System ough Directory.
WEB2 Properties R General Operating System Member OF Delegation Location Managed By Dalain Delegation is a security-sensitive operation, which allows services to act on behald another user. C Do not trust this computer for delegation C Tous this computer for delegation to any service (Keberos only) C Trust this computer for delegation to any service (Keberos only) C Tous this computer for delegation to any service (Keberos only) C Use Kerberos only C Use Kerberos only C Use way sathenication protocol Services to which this account can present delegated credentials: Service Type User or Computer MSDMSdkSvc SM1 gridpto se	Click OK		
Close Active Directory Users and Co	omputers console		
IMPORTANT: Wait for Active Director in your domain before proceeding to depending on your environment co	o next step. This can ta		

Restart the server hosting WebFront for Service Manager to apply the delegation
changes on the server

License Activation

The section below shows a step-by-step instruction how this is accomplished. It's the same procedure for evaluation activation and commercial registration. When performing a commercial activation any active evaluation licenses will be automatically removed and replaced by commercial license.

Activation of server with Internet access

Do t	Do these steps on the WebFront server			
	Click All Programs – WebFront fo	or Service Manager – WebFront License Activation		
	ved/oreal 1 X Activation Wised Ved/oreal 1 X Activation Ved/ore	Select I want to activate the software over the Internet, then click Next		
	WebFront 1.X Please enter your activation key: 2009.04/TC2+0304-05U-0-14699	Specify Activation Key provided by Gridpro AB , then click Next		
	WebFront 1.X Uconse installed. Activation complete. CEDA. Text > Preh	Click Finish		
	Close WebFront License Activati	on		
	Your license has now been activated and WebFront is ready			

Activation of server <u>without</u> Internet access

Do t	Do these steps on the WebFront server				
	Click All Programs – WebFront fo	or Service Manager – WebFront License Activation			
	WebFrowt 1.X Activation/Woard X WebFrowt 1.X maskes activator. The weard will guide you through the activator pocoses. How do you want to activate your orffware? How do you want to activate the information • I want to activate the information. • I want to activate the information • I want to initial. • I want to prepare a locome if the information. • I want to prepare a locome if the information.	Select I want to request a license file, then click Next			
	WebFront 1.X Please enter your activation key: poorv webfas weeg arcs: aprix	Specify Activation Key provided by Gridpro AB , then click Next			
		Click Copy to clipboard and paste the information into a text file. Save the text file for later use. Then click Finish			
		s an attachment together with your Company name ogridprosoftware.com (you should receive a			
	When you receive a response emo	ail containing a license file you can continue to next			
	Click All Programs – WebFront fo	or Service Manager – WebFront License Activation			
	Webfront LX Activation Woard Webfront LX Activation Woard Webfront LX neutres activation. This witard will guide you through the Activation process. How do you want to activate your software? I want to activate the software over the Internet. I the a learner fiel I want to install. I want to request a learner fiel. (Stark) (Sta	Select I have a license file I want to install, then click Next			
	Click Browse and browse to the Open	license file received from Gridpro AB and click			

WebFront 1.X	Click Next
Enter the location of the license file: C:\TempSLP_2008+w8848e-W898E-W708-X0VAA.bn Biowea	
<back hent=""> Cancel</back>	
WebFront 1.X Activation Wizord Rev WebFront 1.X	Click Finish
License installed. Activation complete.	
< Back Pred	
Close WebFront License Activation	
Your license has now been activate	ed and WebFront is ready

Verify Installation

This step can be made on any client in the domain that fulfills the client prerequisites. If you log on from a server operating system, you will always be prompted for credentials			
Open your browser			
Type in <a href="http://<WebFrontServerName>/WebFront">http://<webfrontservername>/WebFront</webfrontservername> in address field and press Enter			
NOTE: Variable <webfrontservername> should be replaced by the WebFront Server name in your environment</webfrontservername>			
WebFront for Service Manager should now start, and be ready for work.			
Common Errors			
Symptoms: When you enter WebFront you get similar error message as shown below. <u>Cade Error</u> System ServiceModel.DomainServices.Clent.DomainOperationException: Load operation Tailed for gury "SetLocalizationErrors". The user does not have sufficient permission to perform the operation. Intred Exception message: The caller was not authenticated by the service. Com			

Solution: Delegation configuration does not work correctly. Please go through the *Active Directory Configuration* section again and verify your environment.

Load Error X System, ServiceModel DomainServices, Client, DomainOperationException: Load operation Failed for quary GeAvailabile anguageCodes: The user does to have adfibient permission to perform the operation. InnetException message: The caller was not authenticated by the service. CK

Upgrade

This section describes the procedure to upgrade any previous version of WebFront for Service Manager to the latest version.

IMPORTANT: Login using a user account that is a member of the local server administrator group and has been assigned the SCSM Administrator role in Service Manager.
Click Start – All Programs – Administrative Tools – Server Manager
Select Roles in the left-pane
In the right-pane select Add Role Services in the Web Server (IIS) section
IIS Clerk Certificate Mapping Authentication URL Authorization Request Filtering (Installed) IF and Domain Restrictions State Content Compression (Installed) State Content Compression Management Console (Installed) IIS 6 Management Console (Installed) IIS 6 Management Console IIIS 6 Management Console FTP Service
Click Install
Click Close
Close Server Manager
Run WebFront for Service Manager vX.X.XXXX.exe
User Account Control If Do you want to allow the following program to make changes to this computer? If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If Objective for Service Manager Verified publisher. Gelarge AB File ongine. Hard drive on this computer If
WebFront for Service Manager Setup

	WebFront for Service Manager Setup Image: Comparison of the service Manager Setup Image: Comparison of the service Manager Setup Feedy to upgrade WebFront for Service Manager Image: Comparison of the service Manager Setup Image: Comparison of the service Manager Setup Upgrade Information Image: Comparison of the service Manager Setup Image: Comparison of the service Manager Setup Webster Comparison of the service Manager Setup Image: Comparison of the service Manager Setup Webster Comparison of the service Manager Setup Image: Comparison of the service Manager Setup Webster Comparison of the service Manager Setup Image: Comparison of the service Manager Setup Webster Ended Manager Setup Image: Comparison of the service Manager Setup Webster Ended Image: Comparison of the service Manager Setup Image: Comparison of the service Manager Setup Image: Determine Ended Image: Comparison of the service Manager Setup Image: Comparison of the service Manager Setup Image: Comparison of the service Manager Setup Image: Determine Ended Image: Comparison of the setup Image: Comparison of the setup Image: Determine Ended Image: Comparison of the setup Image: Comparison of the setup Image: Determine Ende
	Click Finish
URL	rerify that the URL used by the WebFront Link tasks that allow you to get a direct . to a Work Item or CI using a task in WebFront or the Standard Console is figured.
	Click Start – All Programs – Microsoft System Center – Service Manager – Service Manager Console
	Click Administration tab
	In the right pane click Settings
	Double-click WebFront Settings in the middle pane
	WebFront Settings – 🗆 🗙
	General General WebFront Url: http://sm.litware.local/webfront/ Example: http://webfront.gridpro.se/webfront/ CTI CTI CTI
	Verify that the URL to your WebFront site is specified in the WebFront URL field, if not type in the WebFront site. Then click OK to save the settings

Remove obsolete Management Packs

an export copy of the MP's before deleting them.

If you have upgraded from a previous version of WebFront for Service Manager you should follow the steps below to make sure you clean out obsolete Management Packs.

	After verifying that all form customizations have been properly upgraded, if you have any of the following Management Packs in your environment, these are obsolete and can be deleted.			
	 Gridpro.WebFront.ServiceManager.Customization.Configuration Gridpro.WebFront.ServiceManager.Customization.Library 			
	IMPORTANT			
	The management pack			
	Gridpro.WebFront.ServiceManager.Customization.Configuration contains custom			
	form customizations that were created in older versions of WebFront. The upgrade			

should already have migrated these settings, but as an extra precaution please do

Operations

Forms Authentication

By default, WebFront for Service Manager uses Windows Authentication, this provides a smooth single-sign-on experience for the WebFront users. WebFront supports an alternative login method called Forms Authentication which will allow you to prompt the user for a login name and password, this can be useful if you want users to be able to login using a different account than the one they are logged into the computer with. Using Forms Authentication also allows users to switch account by clicking a Sign Out button. To change the authentication method to Forms Authentication, follow these steps.





Settings

Gridpro WebFront settings are stored as web application settings. These settings are configurable after installation using Internet Information Services (IIS) Manager.

Management Server

1.	Start notepad.exe as Administrator
2.	Click File – Open
3.	Select %WebFront Installation Dir%\CustomSettings.config and click Open <i>Typically, "C:\inetpub\wwwroot\WebFront\CustomSettings.config"</i>
4.	To modify which Service Manager Management Server that is used by WebFront for Service Manager, change value of the SMServer setting (underlined in the example below).

	<add key="SMServer" value="<u>scsm.contoso.com</u>"></add>
5.	Click File – Save and then Close Notepad
6.	Finished

Set default Language

1.	Start notepad.exe as Administrator			
2.	Click File – Op	ben		
3.	Select %WebFront Installation Dir%\CustomSettings.config and click Open <i>Typically, "C:\inetpub\wwwroot\WebFront\CustomSettings.config"</i>			
4.	To modify which language that should be used by default by WebFront for Service Manager, change value of the DefaultUserLanguageCode setting (underlined in the example below).			
	<add key="DefaultUserLanguageCode" value="<u>ENU</u>"></add>			
	Change the Value to the three character code that reflects the language that you want to set as the WebFront default (see below table).			
	FRA - French	ESN - Spanish (Spain)	ENU - English	
	SVE - Swedish	ELL - Greek	NOR - Norwegian	
	CSY - Czech	KOR - Korean	RUS - Russian	
	PTB - Portuguese	DAN - Danish	FIN - Finnish	
	JPN - Japanese	PTG - Portuguese (Portugal)	PLK - Polish	
	ITA - Italian	CHT - Chinese (Taiwan)	TRK - Turkish	
	DEU German	CHS - Chinese (Simplified)	NLD - Dutch	
	HUN - Hungary	ZHH – Chinese (Kantonese)		
				1
5.	Click File – Sa	ve and then Close N	otepad	
6.	Finished			

Force Language

1.	Start notepad.exe as Administrator
2.	Click File - Open
3.	Select %WebFront Installation Dir%\CustomSettings.config and click Open Typically, "C:\inetpub\wwwroot\WebFront\CustomSettings.config"
4.	To control if a user should be allowed to change to a language other than the default language in WebFront for Service Manager, change value of the DefaultUserLanguageCodeIsMandatory setting (underlined in the example below).
	<add key="DefaultUserLanguageCodeIsMandatory" value="<u>False</u>"></add>
	Change the Value to <i>TRUE</i> to enforce the use of Default Language. The end-user will not be able to change language in WebFront. <i>FALSE</i> is the default value.
5.	Click File – Save and then Close Notepad
6.	Finished

Configure maximum initial rows returned

1.	Start notepad.exe as Administrator		
2.	Click File – Open		
3.	Select %WebFront Installation Dir%\CustomSettings.config and click Open Typically, "C:\inetpub\wwwroot\WebFront\CustomSettings.config"		
4.	4. To control the number of rows initially returned by a view in WebFront for Service Manager, change value of the InitialLoadSize setting (underlined in the example below).		
	<add key="InitialLoadSize" value="<u>250</u>"></add>		
	Do not increase this value before testing it in test enviroment, increasing the value could cause performance issues for end-users.		
5.	Click File – Save and then Close Notepad		
6.	Finished		

Automatically Refresh View On Submit

When submitting changes made to an object in a form or using a console task, WebFront does not automatically refresh the selected view. To force WebFront to update the selected view after making changes to a work item or configuration item, follow these steps.

1.	Start notepad.exe as Administrator
2.	Click File – Open
З.	Select %WebFront Installation Dir%\CustomSettings.config and click Open Typically, "C:\inetpub\wwwroot\WebFront\CustomSettings.config"
4.	To enable "auto refresh", change value of the AutoRefreshViewOnSubmit setting (underlined in the example below) to <i>TRUE</i> . The default value is <i>FALSE</i> .
	<add key="AutoRefreshViewOnSubmit" value="<u>False</u>"></add>
5.	Click File – Save and then Close Notepad
6.	Finished

Forms Authentication Default Domain Name

When using **Forms Authentication**, you have the possibility to set a default domain name. This will prepopulate "<domain name>\" in the username textbox so the user only needs to add their username instead of having to type "domain\username". To do so, follow these steps.

1.	Start notepad.exe as Administrator
2.	Click File - Open
З.	Select %WebFront Installation Dir%\CustomSettings.config and click Open Typically, "C:\inetpub\wwwroot\WebFront\CustomSettings.config"
4.	To set a default domain name, change value of the FormsAuthenticationDefaultDomainName setting (see example below). The default value is empty.
	<add key="FormsAuthenticationDefaultDomainName" value=""></add>
5.	Click File – Save and then Close Notepad
6.	Finished

Custom Branding

Customer branding functionality in WebFront enables customers to replace parts of the Gridpro branding images with custom company images.

	Image requirements
	PNG format
	Transparent Background
	90 Pixels Maximum Height
	Replacing Top Left Image
1.	Rename your PNG image file to: top_left_logo_90.png
2.	Copy top_left_logo_90.png the folder %WebFrontDir%\ClientBin\CustomTheme
	Replacing Top Center Image
1.	Rename your PNG image file to: top_center_symbol_90.png
2.	Copy top_center_symbol_90.png the folder %WebFrontDir%\ClientBin\CustomTheme

See example below were both images have been rebranded. To hide a logo or symbol copy a blank PNG file.

System Cen Service Manage	ter			Patrik 1	Sundqvist 🎎
Service Manage	er 2012			English	•
Work Items Activity Management Change Management	Work Items				
Incident Management H Problem Management	Folders 6				
> 🖸 Release Management	Activity Management Activity Management	Change Management Change Management	Incident Management Contains Incident Management		
Service Request Fulfilment	Problem Management Contains Problem Management	Release Management Release Management	Service Request Fulfilment Service Request Fulfilment		
Work Items					
-					
Configuration Items	-				
About					

Deep Links

WebFront contains functionality to spawn new as well as access existing work items using deep links.

New Work Items

Using a link with SpawnType parameter new work item form will open for spawn work item type. This could for example be useful when you want to publish a link on your intranet for registering new Incidents etc.

Supported Work items:

- Incident
- Change
- Problem

Example: http://web1.gridpro.se/WebFront/WebConsole.aspx?SpawnType=Incident

Existing Work Items and Configuration Items

Using a URL containing an Object GUID any work item or configuration item can be accessed directly. This could for example be injected as a property in a Service Manager Notification template e-mail, providing the recipient direct access to a work item or configuration item through the web browser. To inject Object GUID into the notification template use **\$Context/?\$Id\$?**.

Example: <u>http://web1.gridpro.se/WebFront/WebConsole.aspx?InternalId=[cd53de22-d49b-a3fd-01fd-1fc049c37daa]</u>

WebFront Link

To simplify retrieving the deep link for a work item or configuration item, a console task is included in the WebFront Management Pack (see picture below). The console task can be used to open a browser window showing the currently selected item in WebFront.



Form Customizations

Please see WebFront Authoring Guide.

Enabling Elevated Trust

By configuring elevated trust for WebFront for Service Manager you enable the following features:

- Allow WebFront to directly open File Attachments instead of the standard behavior that files need to be saved locally before opened.
- Allow WebFront to show and execute console tasks that have been created through the standard console (Library > Tasks).

To enable these, two modifications need to be made on the end-user clients:

- The DWORD registry key AllowElevatedTrustAppsInBrowser needs to be set to 1 (HKLM\Software\Wow6432Node\Microsoft\Silverlight and HKLM\Software\Microsoft\Silverlight for 64-bit clients)
- Gridpro AB certificate needs to be added to Trusted Publishers folder in the local machine certificate store.

This can be done manually or distributed as software package. Another option is to apply the setting through Active Directory Group policy, and that is what is described below in a Windows Active Directory environment. If you are using one of the two first alternatives, you can follow the steps 1 to 7 to extract the certificate file.

1.	Right-Click WebFront for Service M	anager vX.X.XXXX.exe and select Properties
2.	Security Details Previous Versions General Compatibility Digital Signatures Signature list Name of signer: Email address: Timestamp Gridpro AB Not available Not available Not available Details Details Details Details	Click Digital Signatures Tab, then select Gridpro AB Then click Details

3.	
4.	Click Details Tab and then click Copy to File
5.	Certificate Export Ward Select DER encoded binary x.509 (.CER) then click Next Select met you wart to use:
6.	Certificate Export Wizard Type a temporary path and filename for exported certificate (you will need this file later) File name: C:\TEMP\Gridpro.cer C:\TEMP\Gridpro.cer Browse Click Next
7.	Click Finish
8.	Click OK





21.	Certificate Import Wizard Completing the Certificate Import The certificate will be imported after you click Finish. Vou have specified the following settings: Content Certificate Store Selected by User Trusted Publishers Content Certificate File Name Cancel
22.	Close Group Policy Management Editor
23.	Verify that the settings is applied by opening WebFront from the client
24.	 Brobiem Management Click About
25.	WebFront for Service Manager Z Operation Service Manager Z Verify that Has elevated permission is set to True Under: Z Verify that Has elevated permission is set to True Order: Gridprosoftware.com

CTI for Service Manager (Add-on)

CTI for Service Manager enables Service Manager Integration with Lync (or Skype for Business) as well as generic switchboards that have client software that is capable of executing a command line with input parameters such as phone number or sip.

This document will only describe the process of configuring the Lync/Skype integration. But if you want to configure it for your generic switchboard, please contact our support at: <u>support@gridprosoftware.com</u> and they will assist you with the process.

Getting Started with Lync/Skype Integration

Prerequisites

- Lync 2013 Client/Skype for Business 2015 Client or later
- Phone number populated in CMDB to be able to match incoming call with user in CMDB
- SIP or Email populated in CMDB to match incoming IM session in Lync with user in CMD

Configure Server CTI Settings

Click Start – All Programs – Microsoft System Center – Service Manager – Service Manager Console
Click Administration tab
In the right pane click Settings, Double-click WebFront Settings in the middle pane
In the CTI section please configure the following: In the CTI section please configure the following: Image: the set of th
Other The source a Service Request will get when registrated in CTI
 In the WebFront Work Item Link Url field replace ServerName with your WebFront server name

In the Self-Service Portal Item Link Url field replace ServerName with your
SCSM Self-Service portal server name
Click OK

Configure Client CTI Settings

Applying the settings on the Lync clients to enable the embedded experience requires registry settings to be applied to the HKEY_CURRENT_USER part of the registry.

Ona	a server or client with Service Manager console installed
	For Lync 2010 - Save the following text in a file with .reg extension
	Windows Registry Editor Version 5.00 IHKEY_CURRENT_USER\Software\Microsoft\Communicator\ContextPackages\IAFCFDg12-E1B7-4CB4-g2EE-174D5E7A35DDI] 'Name'-"CTI for Service Manager' 'ExtensibilityWindowSize'-dword:00000000 'ExtensibilityApplicationType'-dword:00000001 'InternalURL'-"http://cserver>/WebFront/CTI.aspx' 'ExternalURL'-"http://cserver>/WebFront/CTI.aspx' 'ExtensibleMenu'-'MainWindowActions:MainWindowRightClick;ConversationWindowActions;ConversationWindowRightClick;ContactCardM enu' IHKEY_CURRENT_USER\Software\Microsoft\Office\Lync\Security\Trusted Sites\ <server>] 'http"-dword:00000001</server>
	"https"=dword:00000001
	Replace all occurrences of <server> with the name of the WebFront server</server>
	For Lync/Skype 2013 or later (64-bit) - Save the following text in a file with .reg extension
	Windows Registry Editor Version 5:00 IHKEY_CURRENT_USER\Software\Microsoft\Office\ <version>\Lync\Addins\IAFCFDg12-E1B7-4CB4-g2EE-174D5E7A35DD]] 'Name"-"CTI for Service Manager' 'ExtensibilityWindowSize'-dword:00000000 'ExtensibilityApplicationType"-dword:00000001 'InternalURL'-'http://<server>/WebFront/CTI.aspx' 'ExtensibileMenu'-'MainWindowActions;MainWindowRightClick;ConversationWindowActions;ConversationWindowRightClick;ContactCardM enu' IHKEY_CURRENT_USER\Software\Microsoft\Office\Lync\Security\Trusted Sites\<server>] 'http:'-dword:00000001</server></server></version>

Replace all occurrences of <server> with the name of the WebFront server and <version> with the corresponding Lync/Skype version.</version></server>
2013 = 15.0
2016 = 16.0
For Lync /Skype 2013 or later (32-bit) - Save the following text in a file with .reg extension
Windows Registry Editor Version 5.00
HKEY_CURRENT_USER\Software\Wow6432Node\Microsoft\Office\ <version>\Lync\Addins\IAFCFD912-E1B7-4CB4-92EE-</version>
174D5E7A35DD]]
'Name'='CTI for Service Manager'
ExtensibilityWindowSize=dword:0000000
'ExtensibilityApplicationType'=dword:00000001
'InternalURL'='http:// <server>/WebFront/CTI.aspx'</server>
ExternalURL="http:// <server>/WebFront/CTI.aspx*</server>
``ExtensibleMenu'-'MainWindowActions;MainWindowRightClick;ConversationWindowActions;ConversationWindowRightClick;ContactCardMindowRightClick;ContactCardMindowActions;ConversationWindowRightClick;ContactCardMindowActions;ConversationWindowRightClick;ContactCardMindowActions;ConversationWindowRightClick;ContactCardMindowActions;ConversationWindowRightClick;ContactCardMindowActions;ConversationWindowRightClick;ContactCardMindowActions;ConversationWindowRightClick;ContactCardMindowActions;ConversationWindowRightClick;ContactCardMindowActions;ConversationWindowRightClick;ContactCardMindowActions;ConversationWindowRightClick;ContactCardMindowActions;ConversationWindowActions;ConversatioNindowActions;ConversationWin
enu'
[HKEY_CURRENT_USER\Software\Wow6432Node\Microsoft\Office\Lync\Security\Trusted Sites\ <server>]</server>
"http"=dword:00000001
"https"=dword:00000001
Replace all occurrences of <server> with the name of the WebFront server and <version> with the corresponding Lync/Skype version.</version></server>
2013 = 15.0
2016 = 16.0
Save the file
Import the registry file by clicking on it on all computers with Lync /Skype client installed that should have the integration enabled
Open a contact in Lync and click "…" then CTI for Service Manager to open the form and verify the functionality (see below)
<u>M</u> anage Recordings
IM <u>T</u> ext Display Size
Change <u>F</u> ont
CTI for Service Manager 2012
Skype for Business <u>H</u> elp

Getting started with Command line integration

If you are not using Lync or Skype for Business and are looking to integrate a different call center application, you can absolutely do so using the command line integration option.

Prerequisites

- Call center agent application is able to execute a command line on an incoming call
- Call center agent application is able to pass the telephone number of the calling user as an argument in the command line being executed
- Phone number needs to be populated in CMDB to be able to match incoming call with user in CMDB

To enable computer telephony integration using command lines you need to configure the call center agent application to execute a command line as below:

Command line example

http://<webfrontServer>/webfront/CTI.aspx?PhoneNumber**-%phoneNumber%**

In the example above "<webFrontServer>" needs to be replaced with the name of your WebFront server or DNS alias. The "%phoneNumber%" needs to be modified differently based on which call center agent application you are using. Different products use different argument syntaxes.

When you have successfully configured the command line a browser window will open when the agent receives an incoming call. The URL of the browser window will contain the phone number which is passed to WebFront for processing.

Search options

By default, WebFront prepends a wildcard to the phone number when trying to locate a matching user in the CMDB of Service Manager. This means that if the phone number is e.g. a four-digit internal number you might end up matching too many users. As an example:

User A – Mobile number: "0702007722"

User B – Phone number: "7722"

When "User B" calls WebFront will find both User A and User B if you do not configure the command line to use exact match. To use exact match, you need to add "^" before the actual number argument.

For exact match, add "^"

http://<webfrontServer>/webfront/CTI.aspx?PhoneNumber=^%phoneNumber%

Special characters considerations

If the call center application forwards a number starting with a plus sign "+" this will be removed based on processing rules of a URL. Consider the users below when the following phone number is passed to WebFront: "+0702007722"

User A – Mobile number: "+0702007722"

User B - Phone number: "0702007722"

WebFront will find both user A and B (defined above) if the command line hasn't been built to use exact match (as described in the Search Options section). On the other hand, if the command line has been built to use exact match WebFront will only find user B since the plus sign is removed by the URL processing in web browsers and therefore isn't passed to WebFront. If your user objects in the CMDB has phone numbers registered with plus signs (or other special characters) and you want to do an exact match you will need to pre-process the phone number and replace the special character with its hexadecimal representation as described here: https://technet.microsoft.com/en-us/library/aa226544(v=sql.80).aspx.

Example of exact match on phone number starting with a plus sign

http://<webfrontServer>/webfront/CTI.aspx?PhoneNumber=^%2B0702007722

Note: The command line above is showing a resulting command line where the argument sent by the call center application is "%2B0702007722". This mean the call center application has already replaced the plus sign with "%2B", which is the way it needs to be implemented for this to work.

Applying template based on argument

By default, no template is applied upfront when the CTI application is initialized unless a Default Template has been selected in the Settings tab. If you want to you can choose to pass a template id as an argument, this will initialize the CTI form using the specified template. Note, passing a template id as an argument will override the default template setting.

Using the template argument can be useful if your system is able to pre-qualify the call and pass different arguments based on the subject of the call.

Example of template id as an argument:

http://<webfrontServer>/webfront/CTI.aspx?templateid=4cf10508-c474-94fd-55df-28cb7a6f3fb3

Note: It is the internal id of the template that you need to pass. This can be located using the Service Manager PowerShell Module.

Integration: Provance Asset Management

WebFront for Service Manager allows you to view information about Hardware Assets related to an Incident if you are using Provance Asset Management. To enable this, you need to have the Provance Asset Management 3.0 (or later) installed and import an integration pack that comes with WebFront for Service Manager. If the integration pack has not been imported, you will see the following dialog.

Error	Resolved 9
	The Provance Integration Management Pack for WebFront hasn't been imported to your Service Manager environment. Please see the product documentation for instructions.
	ок

To import the integration pack for Provance Asset Management, follow the steps below.

On a	On a server or client with Service Manager console installed		
	Click Start – All Programs – Microsoft System Center – Service Manager – Service Manager Console		
	Click Administration tab		
	Select Management Packs		
	Click Import		
	Browse and select the following management pack: "C:\inetpub\wwwroot\WebFront\Bin\Gridpro.WebFront.IP.ProvanceAsset.Library. mpb" Note: The path might differ if you have chosen to install WebFront beneath another WebSite		
	Click Open		
	Click Import		
	Click OK to close the dialog		

After importing the integration pack it is possible to use the console task called "View Related Hardware Assets" to view the asset information.

Uninstallation

Software

Uninstalling WebFront is done by using the control panel applet.

On a server that has WebFront for Service Manager software installed		
	Click Start – Control Panel	
	Click Uninstall a program	
	Right-click WebFront for Service Manager and select Uninstall	
	Click Yes	
	Click Yes , on User Access Control popup question	
	Uninstallation completed	

Management Packs

On a server or client with Service Manager console installed		
IMPORTANT		
Management pack Gridpro.WebFront.ServiceManager.Presentation.Library contains the data model used to represent WebFront form customizations in the Service Manager database. After deleting this management pack your form customizations will be lost.		
	Click Start – All Programs – Microsoft System Center – Service Manager – Service Manager Console	
	Click Administration tab	
	Select Management Packs	
	In center-pane select Gridpro.WebFront.ServiceManager.Library	
	Select Delete in right-pane	
	Delete Management Pack Click Yes All data related to the management pack will be permanently deleted. Do you want to delete this management pack? Click Yes	
	In center-pane select Gridpro.WebFront.ServiceManager.Presentation.Library	
	Select Delete in right-pane	

	Delete Management Pack Click Yes	
	All data related to the management pack will be permanently deleted. Do you want to delete this management pack?	
	Yes No	
	In center-pane select	
	Gridpro WebFront ServiceManager IP ProvanceAsset Library	
	Select Delete in right-pane	
	Delete Management Pack	
	All data related to the management pack will be permanently deleted. Do you want to delete this management pack?	
	Yes	
	Management Packs removal completed	