

WebFront for Service Manager Deployment Guide

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

Contents

Prerequisites	
Windows Server	4
Server Configuration	4
Microsoft Silverlight 5 Installation (Optional)	7
Installation	8
WebFront for Service Manager	8
Active Directory Configuration (Only remote installation)	
License Activation	
Verify Installation	
Upgrade	
Remove obsolete Management Packs	
Operations	21
Forms Authentication	
Settings	
Management Server	
Set default Language	
Force Language	
Configure maximum initial rows returned	
Automatically Refresh View On Submit	
Forms Authentication Default Domain Name	
Custom Branding	
Deep Links	
New Work Items	
Existing Work Items and Configuration Items	
WebFront Link	
Form Customizations	
Enabling Elevated Trust	
CTI for Service Manager (Add-on)	
Getting Started with Lync/Skype Integration	
Getting started with Command line integration	
Integration: Provance Asset Management	
Uninstallation	

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	ASP.NET 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*	ASP.NET 4.7*				

• 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 VELCOME TO SERVER MANAGER VELCOME TO SERVER MANAGER VELCOME TO SERVER MANAGER CONSISTENT CO	Click Add Roles and features
Mark Roles and Fastures Wand Contraction Type Refore you begin Exerce Selection Fastures Fastures Confirmation Confirmati	Click Next
Add Roles and Factures Woard Control Laboration Mathematical Stream Add Roles and Factures Woard Control Laboration Mathematical Add Roles and Factures Woard Control Laboration Add Roles Add Roles and Factures Woard Control Laboration Add Roles Add Ro	Click Next

Add Roles and Features Wiscol	Click Next
Add Adde and Fetures Woodd Control and Add Add Add Add Add Add Add Add Add A	<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: 1. Open Control Panel 2. Click Uninstall a Program 3. 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	
_	7. Restart WebFront Setup and the error sh	ould not reoccur
	WebFront for Service Manager Setup C X End-User License Agreement Please read the following license agreement carefully Image: Comparison of the service of the serv	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 review or change any of your installation settings. Click Cancel to ext. Website: Default Web Site Virtual Directory Name: WebFront Application Pool: .NET v4.5 Back Nett	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.	
Dack Filist Carlos	
An additional last step is configuring the	URL used by the WebFront Link tasks
task in WebFront or the Standard Conso	le.
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 m	hiddle 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		
MPORTANT	: 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 of another user. Image: Computer for delegation Dial-in Image: Trust this computer for delegation to any service (Kerberos only) Image: Trust this computer for delegation to any service (Kerberos only) Image: Computer for delegation to any service (Kerberos only) Image: Computer for delegation to any service (Kerberos only) Image: Computer for delegation to any service only Image: Computer for delegati	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, Bulkins security principals, or Other objects Object Types From this location: gridpro.se Enter the object names to select (examples) Dheck Names SM Service (SMservicet@crightro.se) Otheck Names Advanced OK	Type in the name of t Service Manager serv the <u>System Center Da</u> click Check Names to then click OK	he account tha ver are using fo <u>ta Access Serv</u> o verify the nar	at your or running <u>ice</u> service, me and
NOTE: If you are unsure about the acco in, and connect to the Service Manager Log On As column for the System Center System you should select the compute	unt you can identify it by Management server and er Data Access Service. If r account of the WebFror	opening the Ser verify the accou you are running nt server.	vices snap- unt in the g as Local
System Center Data Access Service Microsoft Sy System Center Management System Center Management System Center Management	stem Center Data Access Service.	Started Automatic Started Automatic Started Automatic	GRIDPRO\SMservice Local System GRIDPRO\SMservice
Add Services I 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 MSDMSdkSvc SM1.git/pro.se Image: Service SM1.git/pro.se Select All	Select Service Type M OK NOTE: If the Available se configured service acco Center Data Access Serv permission to register its Please correct the proble	ISOMSdkSvc a ervices box is em unt running the s vice has not eno s SPN in Active D em and retry this	and click npty your System ugh Directory. s step.
VEB2 Properties Image: Comparison of Compa	Click OK		
Close Active Directory Users and Co	omputers console		
IMPORTANT: Wait for Active Director in your domain before proceeding t depending on your environment co	ory change to replicate o next step. This can ta nfiguration	to all domain Ike up to an ho	controllers our

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 activa	ated 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 activate the information. • I want to provide a time activate to install. • I want to install. • I want to provide a locing the lower to install. • I want to install. • I want to provide a locing the lower file. Careet	Select I want to request a license file, then click Next		
	WebFront 1.X Please enter your activation key: poorv webfas weeg arcs: aprix (mon vebfas	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		
	Send the text file saved earlier as an attachment together with your Company name and Activation Code to support@gridprosoftware.com (you should receive a response within 24 hours).			
	When you receive a response email containing a license file you can continue to next step.			
	Click All Programs – WebFront fo	or Service Manager – WebFront License Activation		
	Weldfront LX Activation Woard Weldfront LX Activation Woard Weldfront LX Activation Woard Weldfront 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 want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet. (I want to activate the software over the Internet.	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 activated and WebFront is ready	

Verify Installation

This you	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.		

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

Lood Error X System, ServiceModel DomainServices, Client, DomainOperationException: Losd 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		
Its Clerk Certificate Mapping Authentication URL Authorization Request Filtering (Installed) If not, check Dynamic Content Compression is checked. If not, check Dynamic Content Compression and State Content Compression Its State Content Compression Its Management Console (Installed) Its Management Console (Installed) Its 6 Management Console Its 6 Management Console Its 6 Management Console Its 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 Image: Default Web Setup Endet Upgrade Comparison of the service Manager Setup Image: Default Web Setup Endet Endet		
	Click Finish		
To v URL cont	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/ 		
	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 – Open			
3.	Select %WebFront Installation Dir%\CustomSettings.config and click Open Typically, "C:\inetpub\wwwroot\WebFront\CustomSettings.config"			
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 SVE - Swedish CSY - Czech PTB - Portuguese JPN - Japanese ITA - Italian DEU German HUN - Hungary	ESN - Spanish (Spain) ELL - Greek KOR - Korean DAN - Danish PTG - Portuguese (Portugal) CHT - Chinese (Taiwan) CHS - Chinese (Simplified) ZHH - Chinese (Kantonese)	ENU - English NOR - Norwegian RUS - Russian FIN - Finnish PLK - Polish TRK - Turkish NLD - Dutch	
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="False"></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.	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="False"></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
3.	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 formatTransparent Backgroundgo 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	ter			Patrik Sundqvi	st 🎎
Service Manage	er 2012			English	•
Work Items Activity Management Charge Management	Work Items				
Incident Management Problem Management	Folders 6				
> 🖸 Release Management	Activity Management	Change Management	Incident Management		
Service Request Fulfilment	Problem Management	Release Management	Service Request Fulfilment		
7 Work Down					
Work Items					
Configuration Items					

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.	Select DER encoded binary x.509 (.CER) then Select Bernoted binary x.509 (.CER) then Select Bernoted binary x.509 (.CER) then Select Bernoted binary x.509 (.CER) Select Bernoted binary x.509 (.Select Bernoted
6.	Certificate Export Wizard Type a temporary path and filename for exported certificate (you will need this file later) Flie 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.	Click About 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:
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:0000000 'ExtensibilityApplicationType"-dword:00000001 'InternalURL'-"http://<server>/WebFront/CTI.aspx' 'ExternalURL'-"http://<server>/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></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;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;ConversationWindowActions;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)		
Manage 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	