

HOWTO

Integrate Citrix Web Interface

With G/On

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1. Document control

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2. Scope

This document describes how to:

- implement a SOCKS Server on a G/On Server in order to support a Citrix Farm
- configure Citrix to use SOCKS for ICA connections
- configure G/On Client to automatically launch SOCKS Gateway and Citrix Web Interface
- automatically login to Citrix Web Interface giving a single sign-on experience

3. Prerequisites

3.1. G/On Server

We used version 3.2.3 installed on a Windows 2003 Enterprise Edition SP1

3.2. SOCKS Server

We used JanaServer2 which can be downloaded here ->
<http://www.janaserver.de/start.php?lang=en&menue=download>

3.3. AutoIT Scripting

We used AutoIT to script the auto-login functionality. AutoIT can be downloaded here ->
<http://www.autoitscript.com/autoit3/>

3.4. Citrix Server/Farm

We tested with Citrix MetaFrame Presentation Server for Windows, version 3 and 4

4. SOCKS Installation and Configuration

4.1. Installation

- Copy janasetup.exe to the G/On Server
- Run the program and follow the instructions
- After installation, the JanaServer2 is automatically started

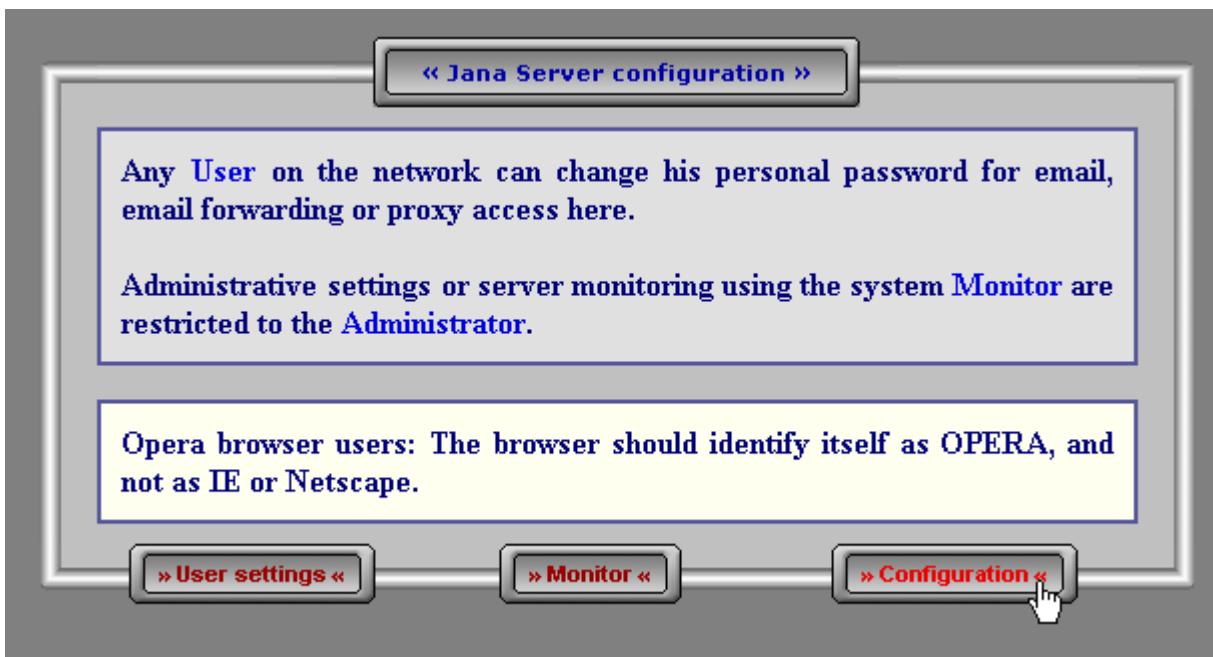
4.2. Configuration

The JanaServer2 is automatically installed as a service and starts running after installation has completed. JanaServer2 places an icon in the system tray, from which settings can be chosen, allowing for configuration of JanaServer2.

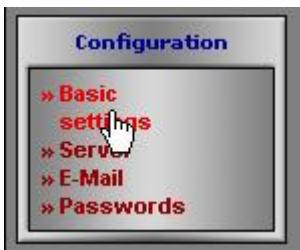


Settings is launched in the default Web Browser, and very few settings have to be changed in order for it to work.

Click on [Configuration]



Select “Basic settings”



Select “IP addresses” under “Basic settings”

The screenshot shows the Jana configuration interface. On the left, there's a sidebar with a tree view:

- Home
- Main menu
 - » Basic settings
 - » Server
 - » E-Mail
 - » Passwords
- Basic settings
 - » General
 - » IP addresses**
 - » Ports
 - » DUN / RAS
 - » Extra - Gateways
 - » Log files
 - » User - management

The "IP addresses" option is highlighted with a mouse cursor. To the right, the main content area has a title bar "« Setting of IP Addresses (Interfaces) »". Below it is a help link "» Help with this page «". The main text area contains instructions about specifying IP addresses for the server. A form field labeled "IP-Addresses:" contains the value "127.0.0.1". At the bottom, there's a note: "First click Submit for the lower part of this page to reload." and two buttons: "» Submit «" and "» Reset «".

It is important that the SOCKS Binding IP address be set to a Loopback address (127.0.0.0/8), because this will keep traffic inside the G/On Server, taking advantage of the high speed of the internal BUS in the server.

From a security standpoint, using the Loopback interface also removes the ability for others to use the Socks Server to gain unwarranted access.

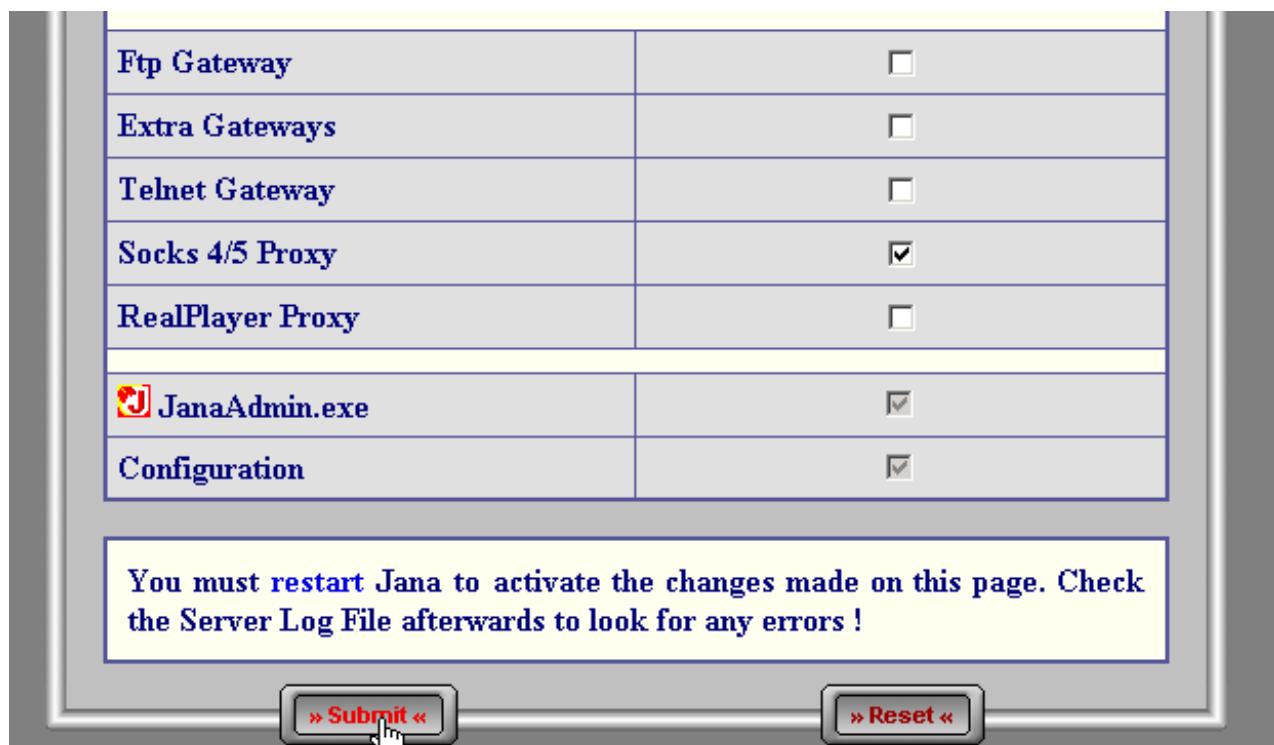
The service will be bound to the Loopback address configured in the SOCKS Binding setting, and can therefore only be used by the server on which the G/On Server is installed.

Scroll down on the page, click off “Socks 4/5 Proxy”, and press [Submit] at the bottom.

Ftp Gateway	<input type="checkbox"/>
Extra Gateways	<input type="checkbox"/>
Telnet Gateway	<input type="checkbox"/>
Socks 4/5 Proxy	<input checked="" type="checkbox"/>
RealPlayer Proxy	<input type="checkbox"/>
J JanaAdmin.exe	<input checked="" type="checkbox"/>
Configuration	<input checked="" type="checkbox"/>

You must restart Jana to activate the changes made on this page. Check the Server Log File afterwards to look for any errors !

» Submit « **» Reset «**



And finally, restart the JanaServer2 to activate the configuration.

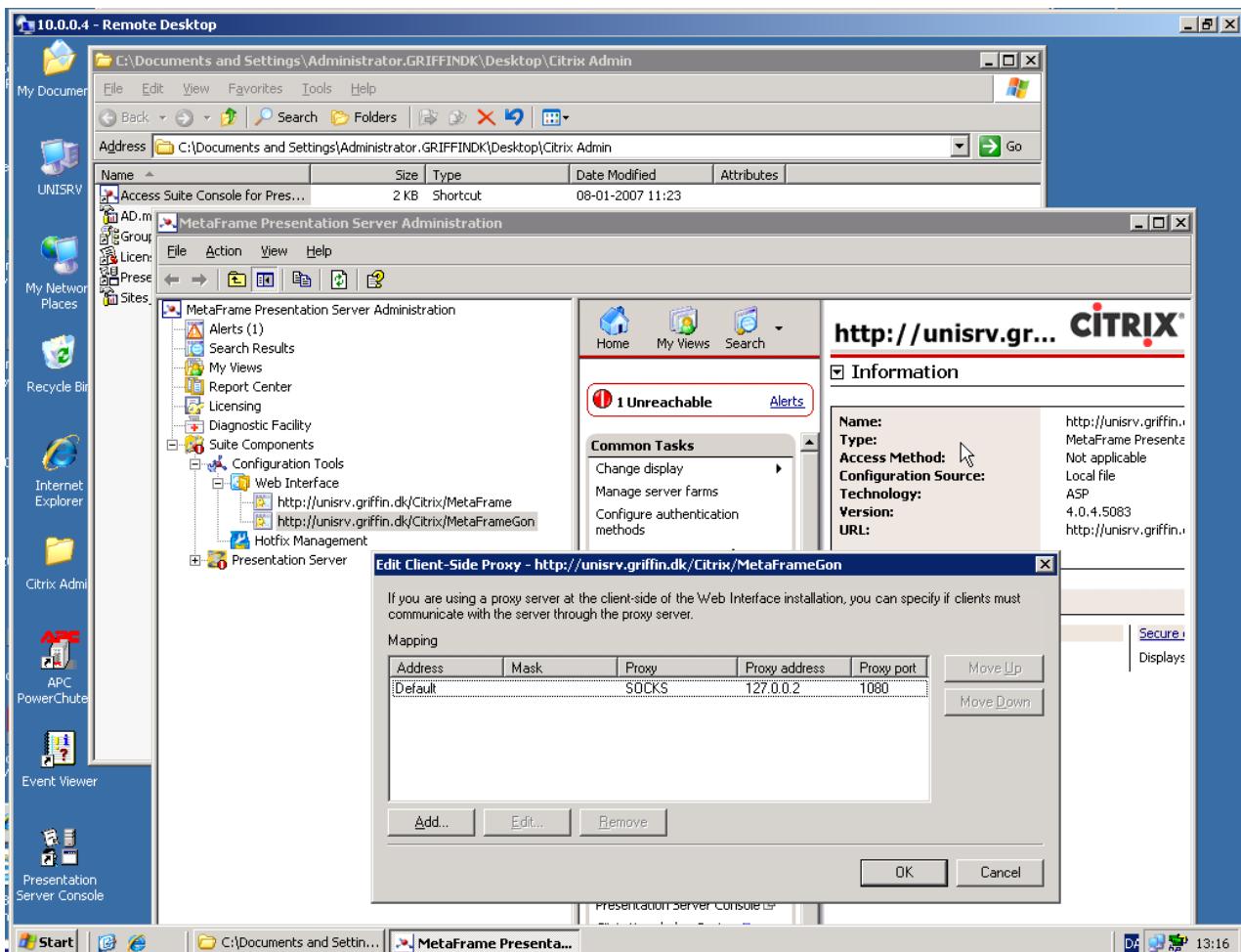


5. Citrix Web Interface Configuration

5.1. Creating a Connector

If you already have Citrix Web site configured and running, you will have a connector configured. This connector should not be touched, as this would cause your current users to be unable to connect.

- go to the Microsoft Internet Information Server (IIS) where you connect to Citrix Web site
- start the MetaFrame Presentation Server Administration tool.
- configure a new connector and call it "MetaFrameGOn"
- edit the client side proxy settings to use SOCKS and connect to 127.0.0.2 on port 1080



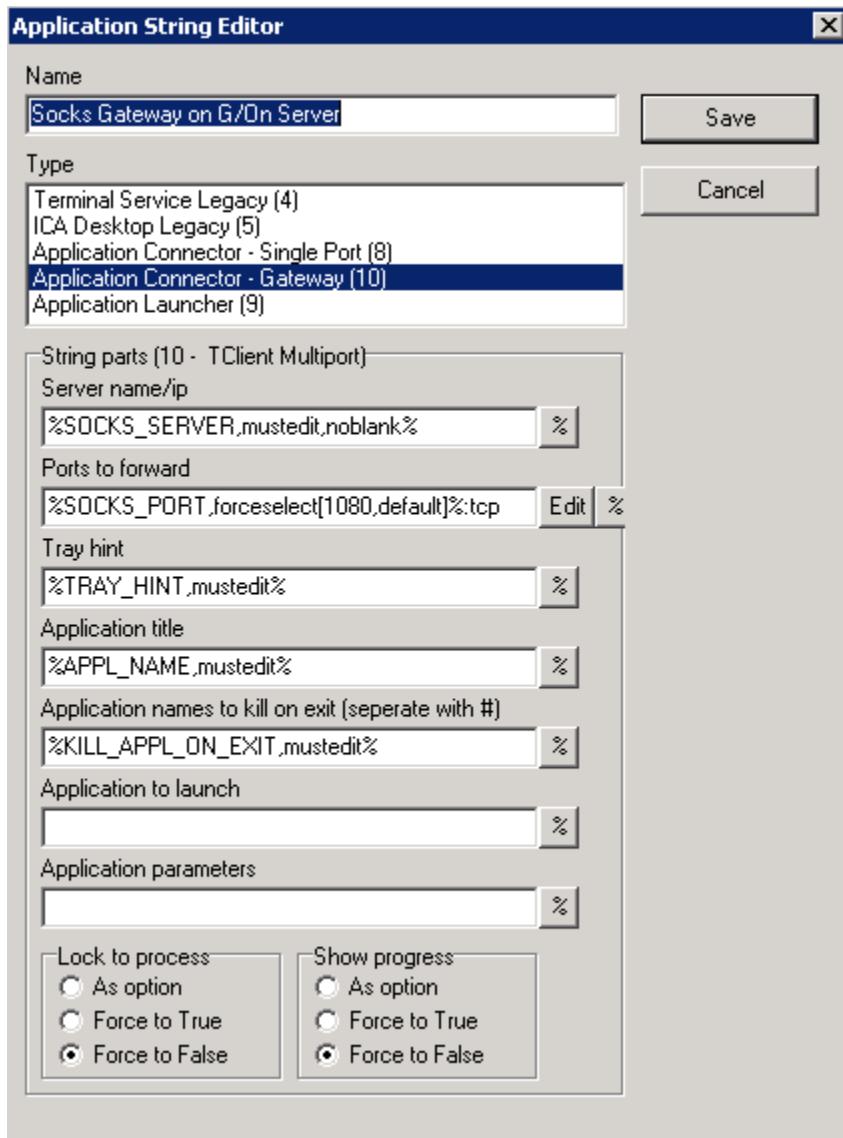
5.2. Older Versions of Citrix

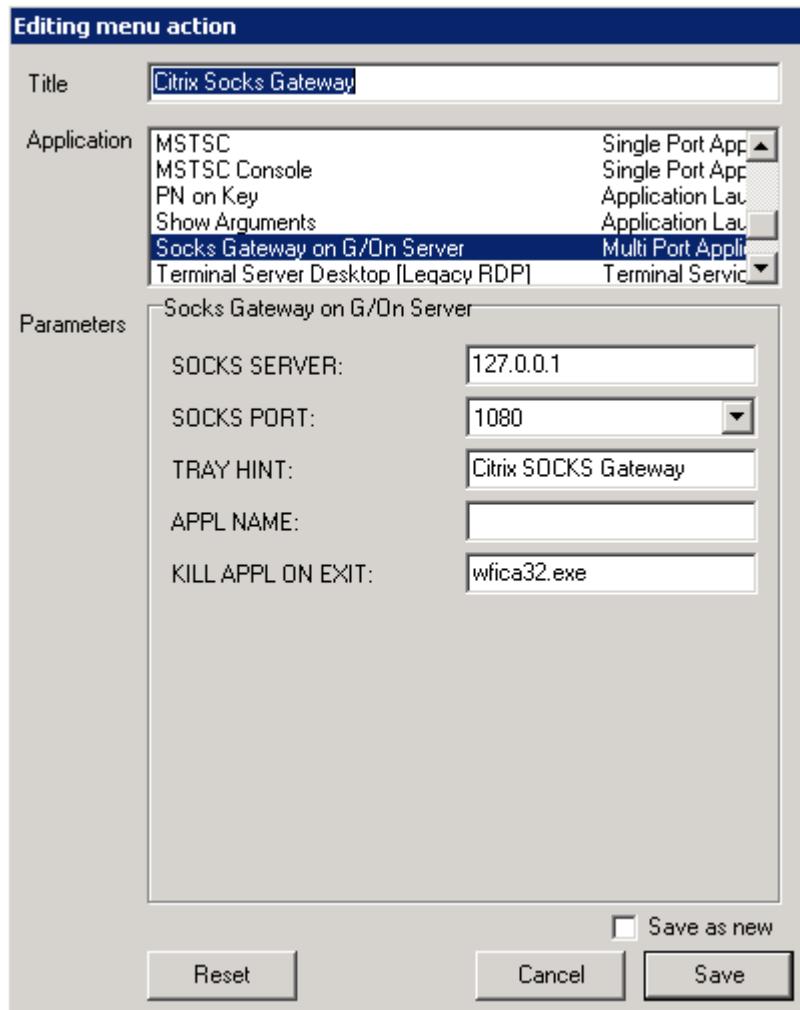
The configuration above works with both Presentation Server version 3.x and version 4.x. If you have an older version, like MetaFrame XP, please consult the Citrix documentation on how to create a Web Interface Connector.

6. G/On Server Configuration

6.1. Socks Proxy String

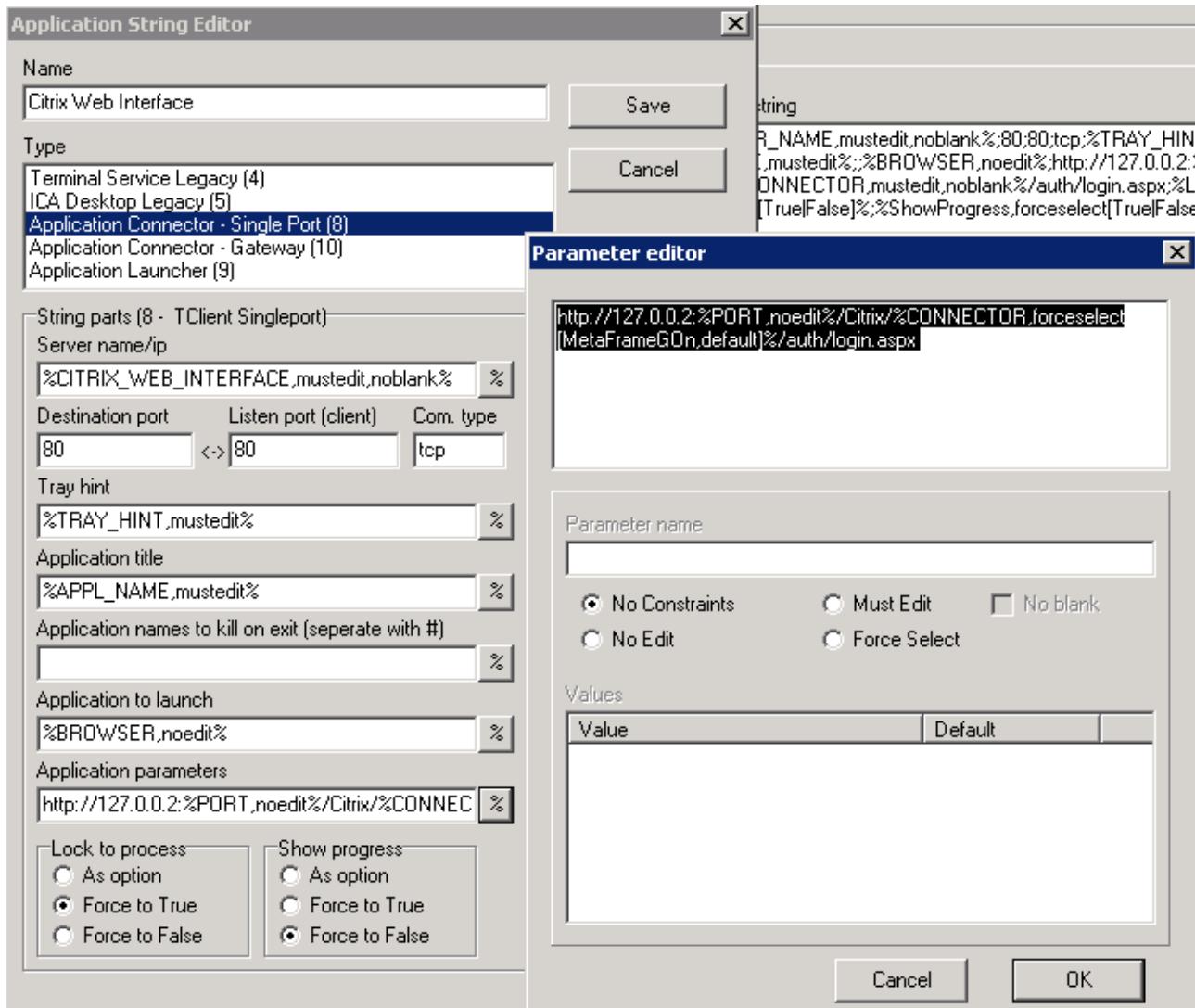
```
10;%SOCKS_SERVER,mustedit,noblank%;%SOCKS_PORT,forceselect[1080,default]%;tcp;;;%TRAY_HINT
,mustedit%;%APPL_NAME,mustedit%;%KILL_APPL_ON_EXIT,mustedit%;;False;False
```





6.2. Citrix Web Interface String

8;%CITRIX_WEB_INTERFACE,mustedit,noblank%;80;80;tcp;%TRAY_HINT,mustedit%;%APPL_NAME,mus
tedit%;,%BROWSER,noedit%;http://127.0.0.2:%PORT,noedit%/Citrix/%CONNECTOR,forceselect[MetaFram
eGOn,default]%/auth/login.aspx;True;False



Editing menu action

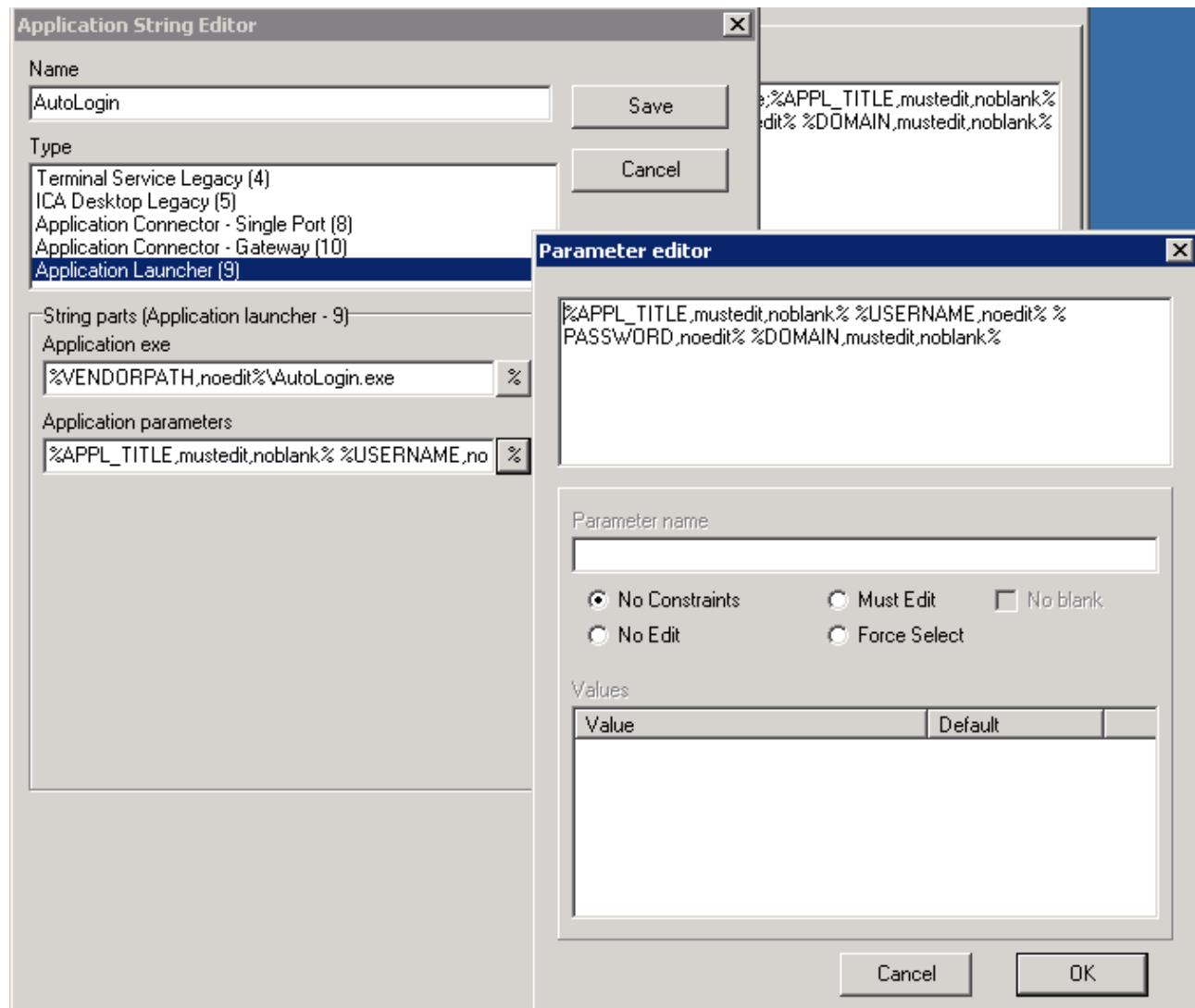
Title	Citrix Web Interface	
Application	Citrix Application Citrix Desktop [Legacy ICA] Citrix Gateway Citrix PN Citrix Web Interface Citrix Web Interface AutoLogin	Application Lau. ICA Legacy Multi Port Appl. Application Lau. Single Port App Application Lau.
Parameters	Citrix Web Interface CITRIX WEB INTERFACE: ctx.company.com TRAY HINT: Citrix Web Interface APPL NAME: CONNECTOR: MetaFrameGOn	
<input type="checkbox"/> Save as new		
<input type="button" value="Reset"/>		<input type="button" value="Cancel"/>
		<input type="button" value="Save"/>

6.3. Citrix AutoLogin String

The source code for the AutoLogin script can be found in section 8.

NB! Make sure that you copy AutoLogin.exe to C:\Program Files\Emcad\RWData on your G/On Server

```
9;%VENDORPATH,noedit%\AutoLogin.exe;%APPL_TITLE,mustedit,noblank% %USERNAME,noedit%
%PASSWORD,noedit% %DOMAIN,mustedit,noblank%
```



Editing menu action

Title	Citrix Web Interface Auto Login	
Application	AC Intranet AutoLogin Citrix Application Citrix Desktop [Legacy ICA] Citrix Gateway Citrix PN	Single Port App Application Lau Application Lau ICA Legacy Multi Port Appli Application Lau
Parameters	AutoLogin APPL TITLE: "MetaFrame Presentation Ser" DOMAIN: DEMO	
<input type="checkbox"/> Save as new <input type="button" value="Reset"/> <input type="button" value="Cancel"/> <input type="button" value="Save"/>		

The “APPL TITLE” field should be set to what is displayed as the Windows Title in the Citrix Web Interface login page. The title must be place in double quotes (“**MetaFrame Presentation Server Log In**”) to be returned as one parameter to the AutoLogin script.

MetaFrame Presentation Server Log In - Windows Internet Explorer

http://ctx01.company.com/Citrix/MetaFrameGOn/auth/login.aspx

Google Start Bogmærker

MetaFrame Presentation Server Log In

GIRITECH | **Web Interface**
for MetaFrame® Presenta...

Log in

User name:

Password:

Domain:

Advanced Options >>>

Log In

Welcome

Please log in

To log in to MetaFrame I

If you do not know your

Message Center

The Message Center disp

You do not have t
MetaFrame Preser

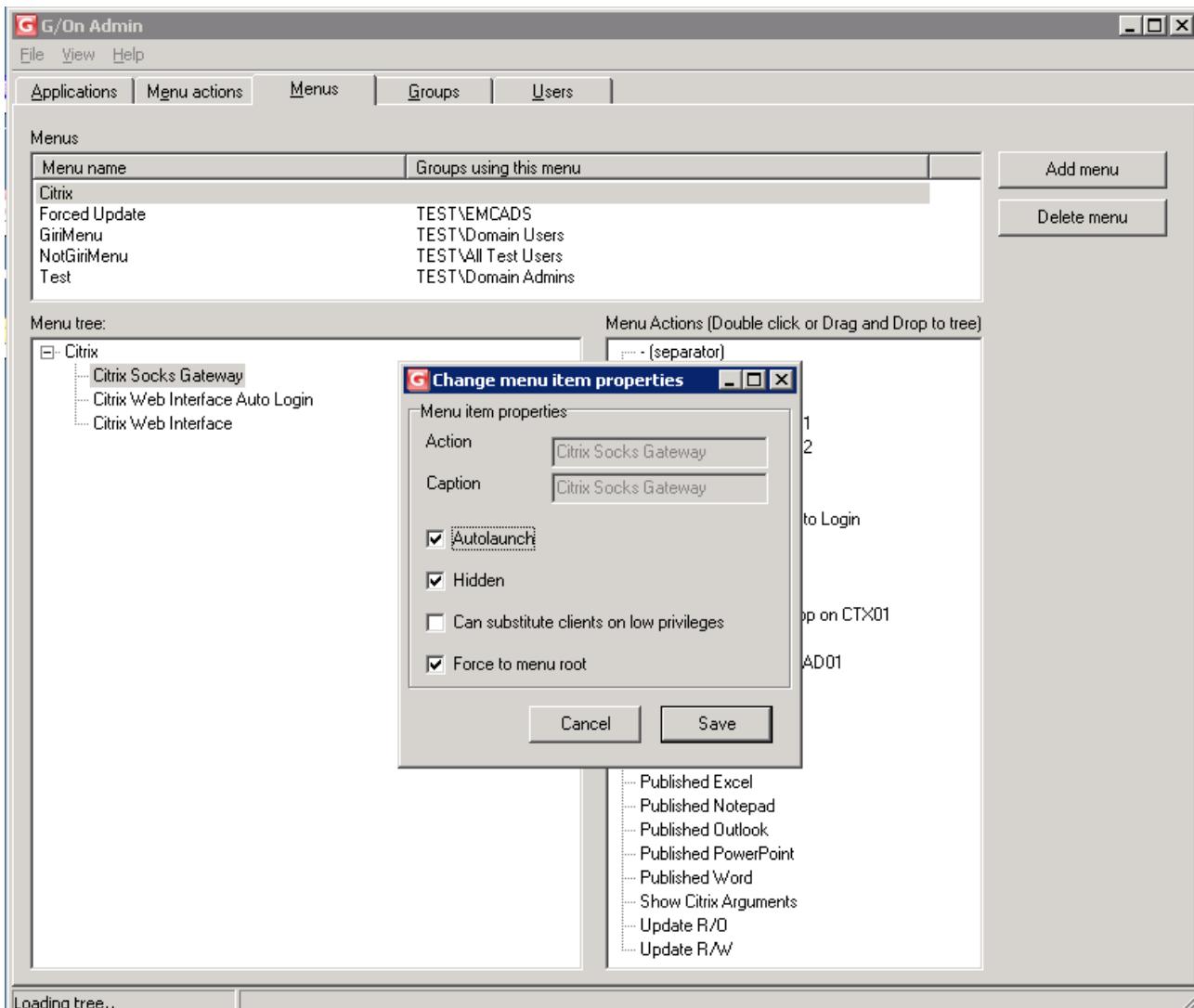
7. Auto-Launch Configuration

In order to auto-launch the Socks Gateway, the AutoLogin and the Citrix Web Interface, it is important to configure these items correctly in the menu given to the user. The auto-launch feature of G/On reads through the menu assigned to the user, and executes auto-launched applications sequentially.

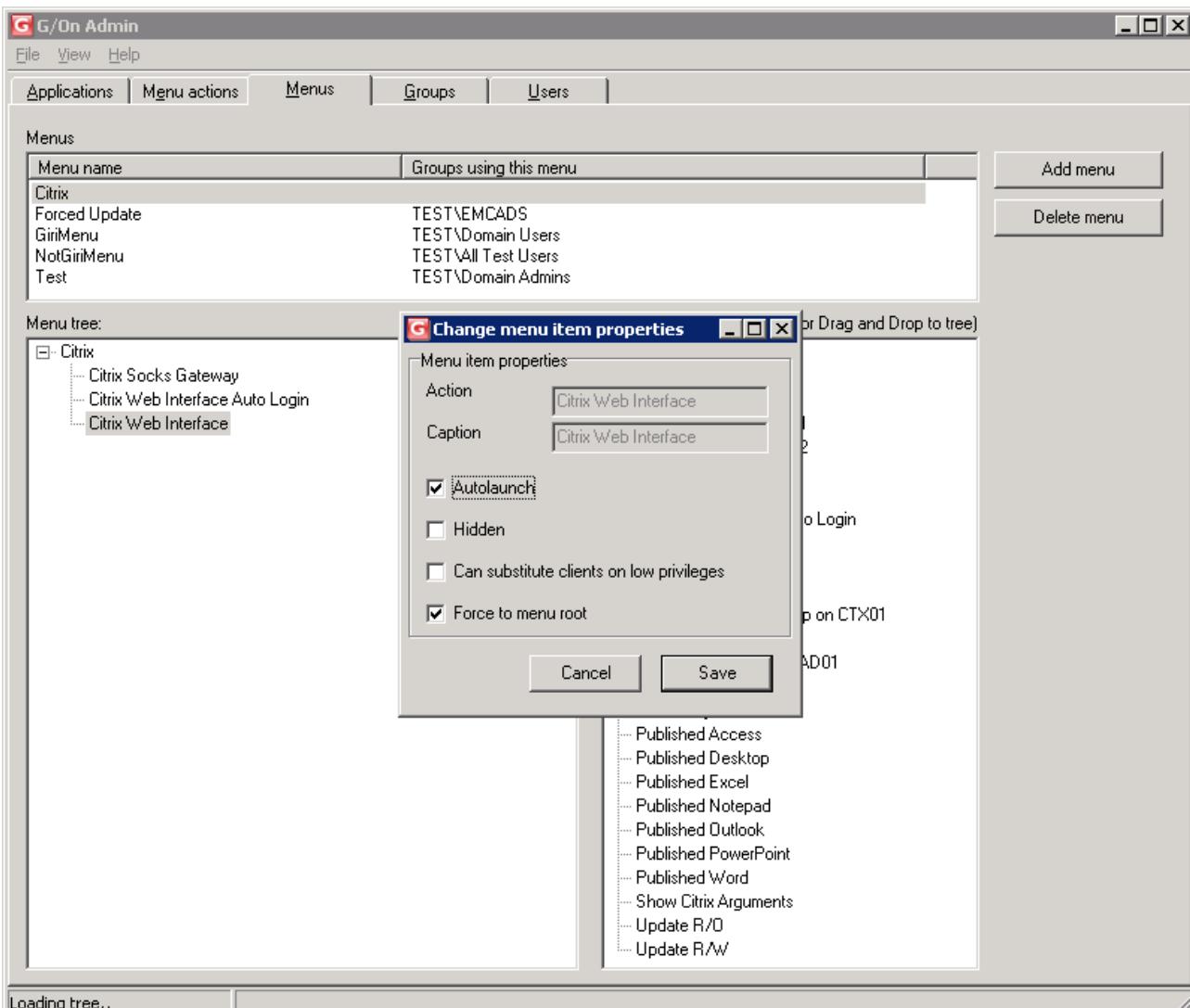
The menu should therefore look like this:



Right click on each Menu Action to set the auto-launch parameters for both the Citrix Socks Gateway and the Citrix Web Interface AutoLogin to “Autolaunch”, “Hidden”, and “Force to menu root”



And do the same for Citrix Web Interface, except do not check "Hidden"



8. AutoLogin Script – Source Code

```

;Automatic Login

; String:
; 9;
; %VENDORPATH,noedit%\AutoLogin.exe;
; %TITLE,mustedit% %USERNAME,noedit% %PASSWORD,noedit% %DOMAIN,mustedit,noblank%

; Hide the application so it acts as an OS command
#NoTrayIcon
WinSetState("AutoLogin", "", @SW_HIDE)

if $CmdLine[0] >= 3 Then
    $TITLE = $CmdLine[1]
    $USERNAME = $CmdLine[2]
    $PASSWORD = $CmdLine[3]
    if $CmdLine[0] == 4 Then
        $DOMAIN = $CmdLine[4]
    Else
        $DOMAIN = ""
    EndIf
Else
    $Msg = "The following values must be specified for AutoLogin to work:" & @CRLF & @CRLF
    $Msg &= "TITLE - Windows title of the application to AutoLogin into" & @CRLF
    $Msg &= "USERNAME - Username to login with" & @CRLF
    $Msg &= "PASSWORD - Password that belongs to Username" & @CRLF
    $Msg &= "DOMAIN - If required, a domain name can be supplied"
    MsgBox(16, "Parameter Error", $Msg)
    Exit(1)
EndIf

; Wait up to 300 seconds (5 minutes) for Application to Start
if WinWait($TITLE, "", 300) == 0 Then
    MsgBox(16, "Application Not Started", $TITLE & " was never started. Autologin is exiting.", 30)
    Exit(2)
EndIf

Sleep(2000)
WinActivate($TITLE)

; Send login information
Send($USERNAME, 1)
Send("{TAB}")
Send($PASSWORD, 1)

if $DOMAIN <> "" Then
    Send("{TAB}")
    Send($DOMAIN, 1)
EndIf

Send("{ENTER}")

; Clean memory of sensitive information
$USERNAME = ClearVar($USERNAME)
$PASSWORD = ClearVar($PASSWORD)
If $DOMAIN <> "" Then
    $DOMAIN = ClearVar($DOMAIN)
EndIf
Exit(0)

Func ClearVar($var)
    $val = ""
    For $i = 1 to StringLen($var)
        $val &= "*"
    Next
    Return($val)
EndFunc

```

9. Disclaimer

Giritech does not endorse the use of the mentioned non-Giritech products in this document. These third party applications and tools are used in their “as-is” form and versions and Giritech can not give any assurance that the described integration with G/On will be available or possible in future releases of these products. Giritech makes no warranties that the mentioned tools in this document works in accordance with their description or in accordance with the expectations of the user(s).