

## JS-Errors when Browsing Web with IE:

This document describes a solution to get rid of annoying JS-Error-Messages when browsing the web within Lotus Notes



13.04.2008

### Initial situation

Lotus Notes allows users to select different options to browse web-pages / links from inside Lotus Domino.

One pretty charming opportunity is the browsing of internet sides inside the Notes client. This offers the opportunity to create "complex" portals combining content provided by the Notes client and retrieved from dedicated internet sites.

When selecting the option "MS Internet Explorer" or "Netscape Navigator", Notes will open a new browser window each time a user clicks on a web-link in e. g. a mail.

This new window is launched as separate instance of the browser and hence the settings defined for this browser will take effect concerning the behaviour of the browser.

So if the user has disabled JS-error messages in his browser (see graphic on the right hand-side), no JS-errors will be shown to the user directly. Only a small exclamation mark will be shown in the left corner of the status bar.

When using the option "Notes with Internet Explorer" as Internet browser in Lotus Notes, the settings defined for the handling of exceptions will not take place but the browser is using the initial standard instead.

Therefore each time a page with an JS error is opened, Notes is showing the JS-error to the user.

The user has to click on the "OK"-button multiple times. Even when selecting the option "do not show again" the error will be repeated as soon as the user opens this page again.

### Possible solutions for this problem

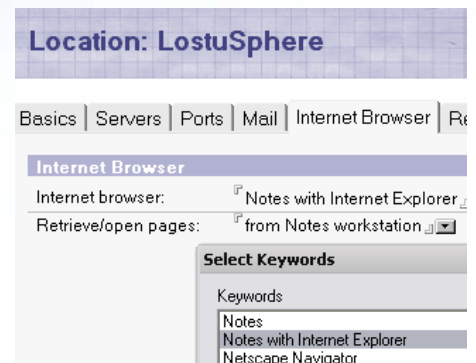
#### *Not use this "browsing"-option*

The first solution of not getting this JS-errors is not to use this option for browsing web-pages. Due to the fact that also the intended "integrated solution" is no more available, this solution turns out to be inadequate.

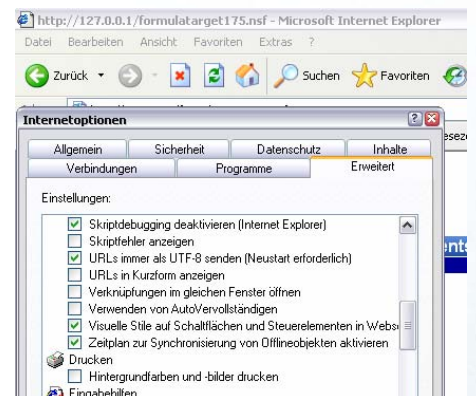
#### *Modify perweb.nsf / perweb50.ntf*

When browsing web-pages from Notes, the Lotus Notes client uses the database « perweb.nsf » based on the template "perweb50.ntf" and within the template the form "WebBrowser4Form".

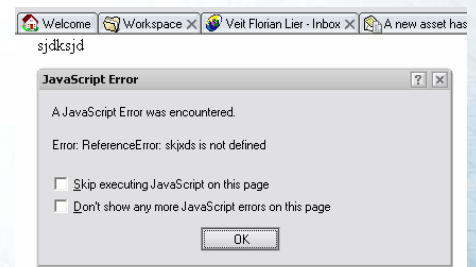
Within this form a "Browser" is included as "embedded control". When opening a web-page several of the events of this control are called to "open", "read" and "display" the content of this web-page.



*Browsing option in Lotus Domino*



*Disabling JS-errors in MS Internet Explorer*



*JS-error thrown by Notes*

*Select other option for browsing web pages instead*

#### *Modify the perweb.nsf*

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In each of these "events" the COM-object of the Browser is handed over as "Webbrowser" object.

Example:

```
"Sub Newwindow2(Source As Webbrowser, Pdisp As Variant..."
```

Within the Browser object a couple of methods and properties are provided.

One of them is called "silent" and controls the behaviour of messages generated by the browser. If this property is set to "true", all messages that normally will be displayed to the user automatically will be closed by the option "Cancel".

Hence the message shown on the first page will not be shown to the user because the system automatically behaves like if the user has read and selected "Cancel".

What are the impacts for this solution:

- JS-Error messages will not be shown to the user (success)
- Depending of when we set this property to true, also the user is not able to enter user names and passwords (risk)
- Security alerts like "trusting a secure connection" are also automatically neglected – as long as the certificate is not available and installed properly (feature)

So finally we have to think about this solution carefully.

As long as users in our organisation are using a modified perweb.nsf, probably they are not able to open web-pages with a "corrupt certificate" or downloading files from a "https://-resource".

To retrieve the results described above the following modifications have to be done in the

Database: « **perweb50.ntf** »

Form: « **WebBrowser4Form** »

In the "browser (Control)" change the following subs as shown:

a) DocumentComplete

```
Sub Documentcomplete(Source As Webbrowser, Pdisp As Variant, Url As Variant)
'### (c) Florian Lier - 2007-08-27 Changes to disable the JS-error-Prompts
    Source.Silent = True
End Sub
```

b) NavigateComplete2

```
Sub Navigatecomplete2(Source As Webbrowser, Pdisp As Variant, Url As Variant)
'### (c) Florian Lier - 2007-08-27 Changes to disable the JS-error-Prompts
    Source.Silent = True

    Dim nulldoc As notesdocument
    'Error 213 is OLEException Error in lserr.lss
```

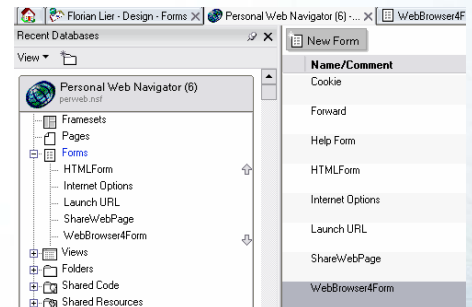
```
Sub Newwindow2(Source As Webbrowser, P
' A navigation has requested a new windc
' we'll take care of everything and tell the c
' otherwise the IE application starts up in ε

On Error 213 Resume Next
Source.|
Dir: AddressBar
Dir: Application
Call: Busy
Call: ClientToWindow
Call: Container
Call: Document
Call: ExecWB
```

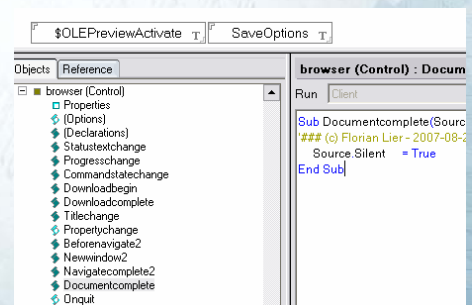
*Change the code generating calendar entries and todos regarding the look & feel of the new platform*

Impacts of this solution

Code change for enabling this solution



*In the form "WebBrowser4Form"*



*Set "silent" property to true in "DocumentComplete" and "NavigateComplete2"*