

Project Inception

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Subject Matter Expert

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UNIFACE

Advanced Development Technology

I found this cool stuff

So I brought up IDF and imported ...

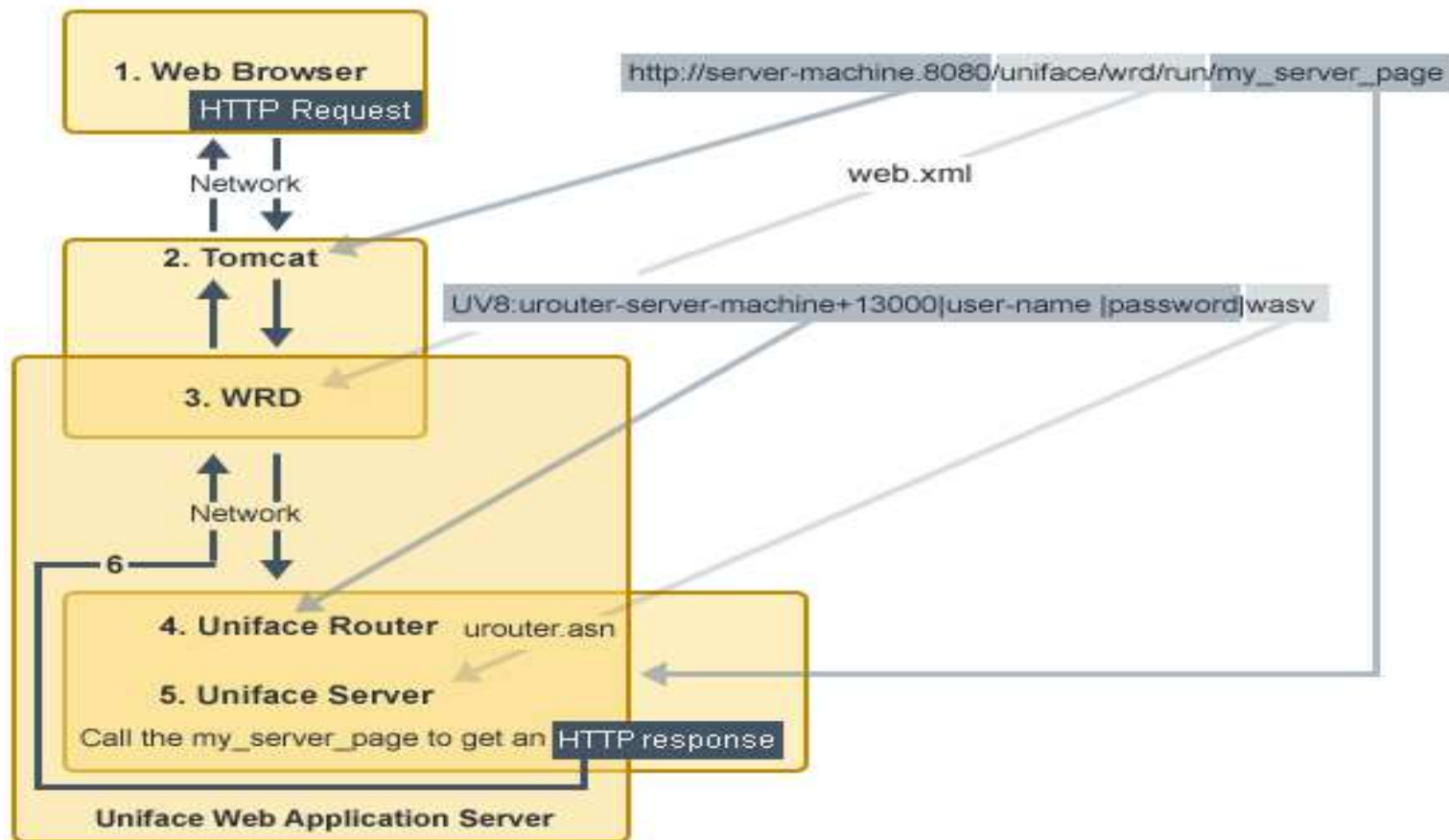
That's when I had this sinking feeling.

Have you ever wondered ...

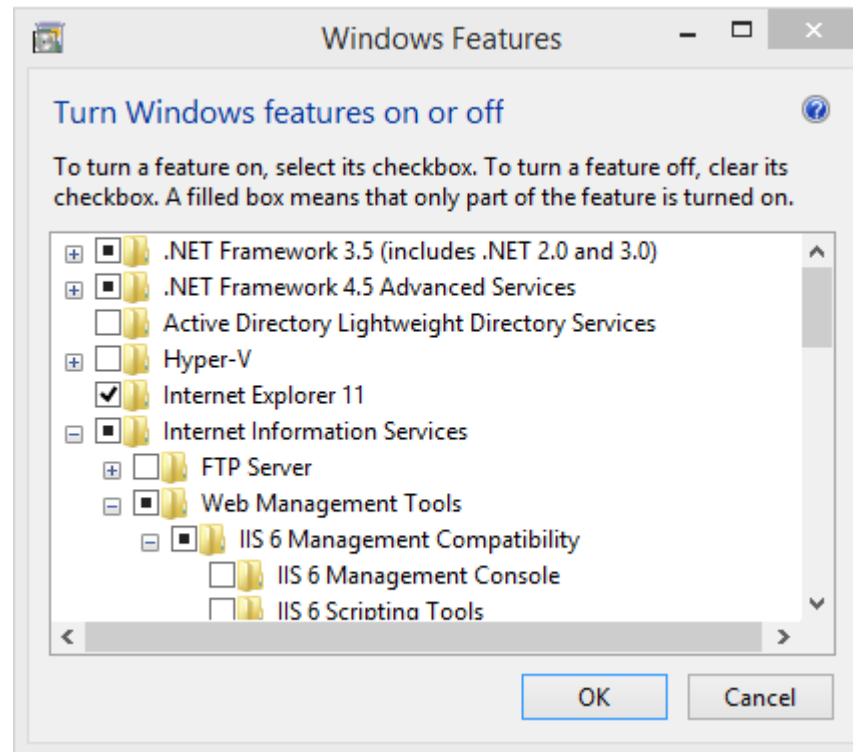
- How to quickly setup a Uniface sandbox
- How can I isolate my environment
- How do I prevent me from mixing samples and my corporate app

Web Based Applications

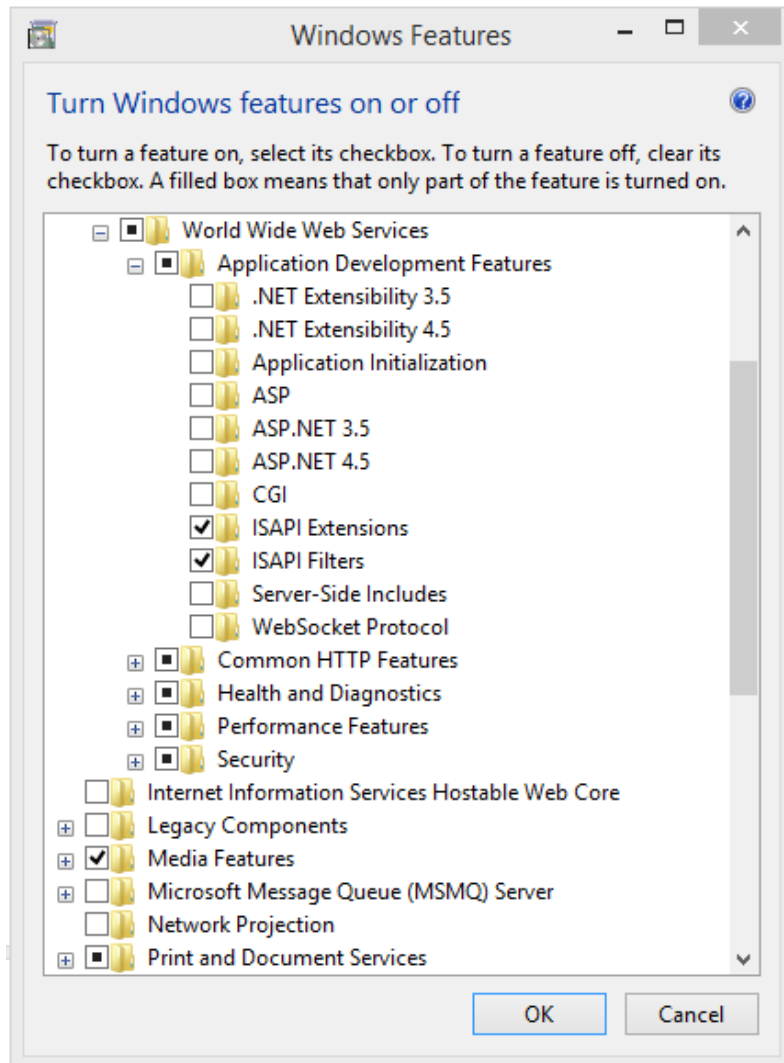
- Tomcat / IIS
- Urouter
- UServer



IIS Redirector



IIS Configuration



ISAPI_Rewriter

My Environment:

Uniface 9.7.01

Windows edition

Windows 8.1 Pro

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System

Processor:	Intel(R) Core(TM) i7-4600U CPU @ 2.10GHz 2.69 GHz (2 processors)
Installed memory (RAM):	8.57 GB
System type:	64-bit Operating System, x64-based processor
Pen and Touch:	No Pen or Touch Input is available for this Display

From apache.org :

- tomcat-connectors-1.2.40-windows-x86_64-iis

ISAPI_Reducer

Required Registry Entries:

Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SOFTWARE\Apache Software Foundation]

[HKEY_LOCAL_MACHINE\SOFTWARE\Apache Software Foundation\Jakarta Isapi Reducer]

[HKEY_LOCAL_MACHINE\SOFTWARE\Apache Software Foundation\Jakarta Isapi Reducer\1.0]

"extension_uri"="/jakarta/isapi_redirect.dll"

"log_file"="e:\jakarta-tomcat\logs\isapi.log"

"log_level"="debug"

"worker_file"="C:\Program Files (x86)\Uniface\Uniface
9.7.01\common\tomcat\conf\workers.properties"

"worker_mount_file"="C:\Program Files (x86)\Uniface\Uniface
9.7.01\common\tomcat\conf\uriworkermount.properties"

ISAPI_Rewriter

Tomcat Examples:

Under the default web site create a new virtual directory

1. Right-Click -> Add Virtual Directory
2. Alias: **/examples**
3. Physical Path: **C:\Program Files (x86)\Uniface\Uniface 9.7.01\common\tomcat\webapps\examples**

ISAPI_Rewriter

Jakarta Application

1. Right-Click -> Add Application
2. Alias : **jakarta**
3. Physical Path : **C:\Program Files (x86)\Uniface\Uniface 9.7.01\common\tomcat\bin**

Alias maps to the *extension_uri* in the registry settings

ISAPI_Rewriter Configuration

Uriworkermap.properties

```
#  
# Simple uri worker map configuration file  
# Check the JK Documentation of Tomcat  
#   for more information  
#  
  
default.worker=defworker  
uniface.worker=defworker  
  
# --- Worker mappings for Uniface ---  
/uniface/*=
```

Uriworkermap.properties

```
#  
# Simple uri worker map configuration file  
# Check the JK Documentation of Tomcat for more information  
#  
  
default.worker=defworker  
uniface.worker=defworker  
  
# --- Worker mappings for Uniface ---  
/uniface/*=defworker  
  
# Add tomcat examples for testing  
/examples/*.*=defworker  
/examples/servlet/*.*=defworker
```

ISAPI_Redirector

Workers.properties

```
#
# Simple workers configuration file
# Check the JK Documentation of Tomcat for more information
#

ps=\

# List all workers
worker.list=defworker

# Redefining the worker named defworker of type ajp13
worker.defworker.port=8083
worker.defworker.host=localhost
worker.defworker.type=ajp13
worker.defworker.lbfactor=1
# Specify the size of the open connection cache.
#worker.defworker.cachesize

# Specifies the load balance factor when used with a load balancing worker.
worker.loadbalancer.type=lb
worker.loadbalancer.balanced_workers=defworker
```

Workers.properties

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ISAPI_Reducer

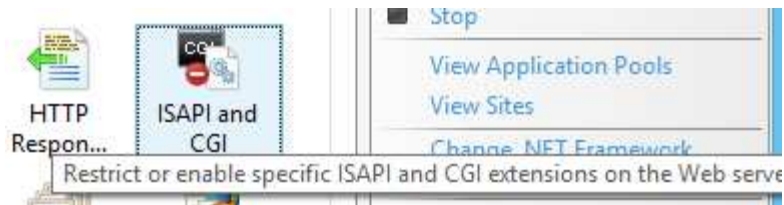
Where does that port come from?

C:\Program Files (x86)\Uniface\Uniface 9.7.01\common\tomcat\logs\Catalina.DATE
Where Date = 2015-10-14

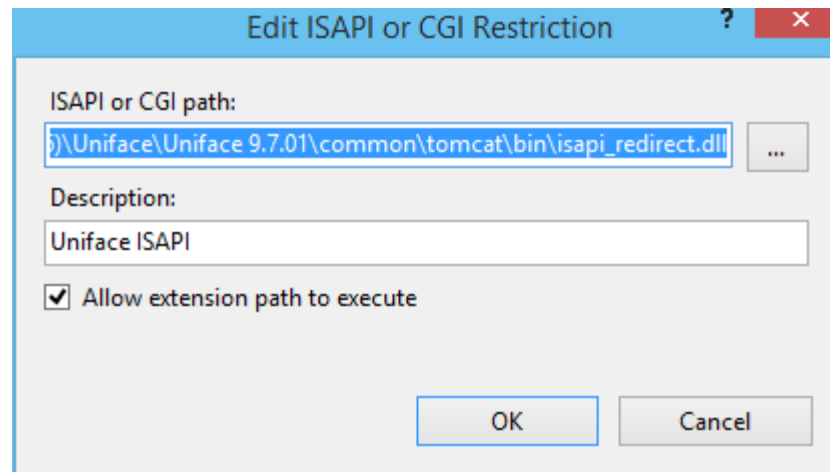
14-Oct-2015 08:09:17.927 INFO [main] org.apache.coyote.AbstractProtocol.init
Initializing ProtocolHandler ["http-apr-8080"]

14-Oct-2015 08:09:17.943 INFO [main] org.apache.coyote.AbstractProtocol.init
Initializing ProtocolHandler ["**ajp-apr-8083**"]

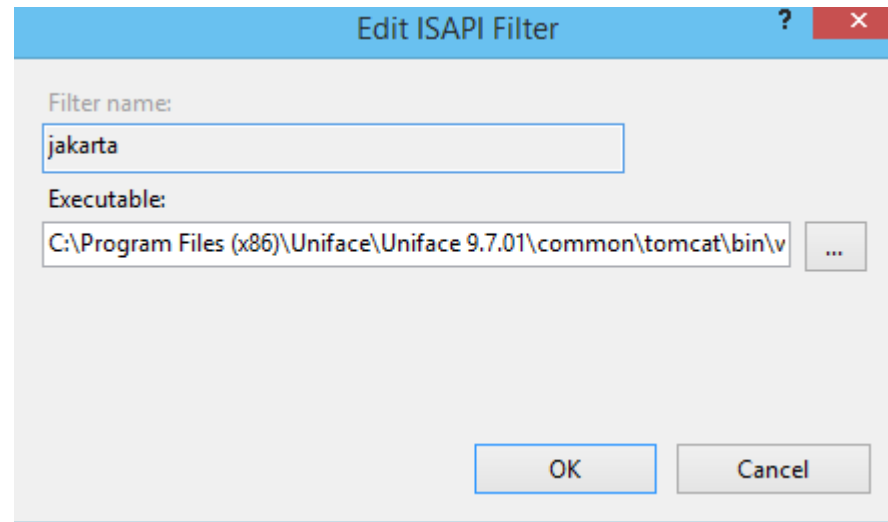
ISAPI_Reducer



Add...

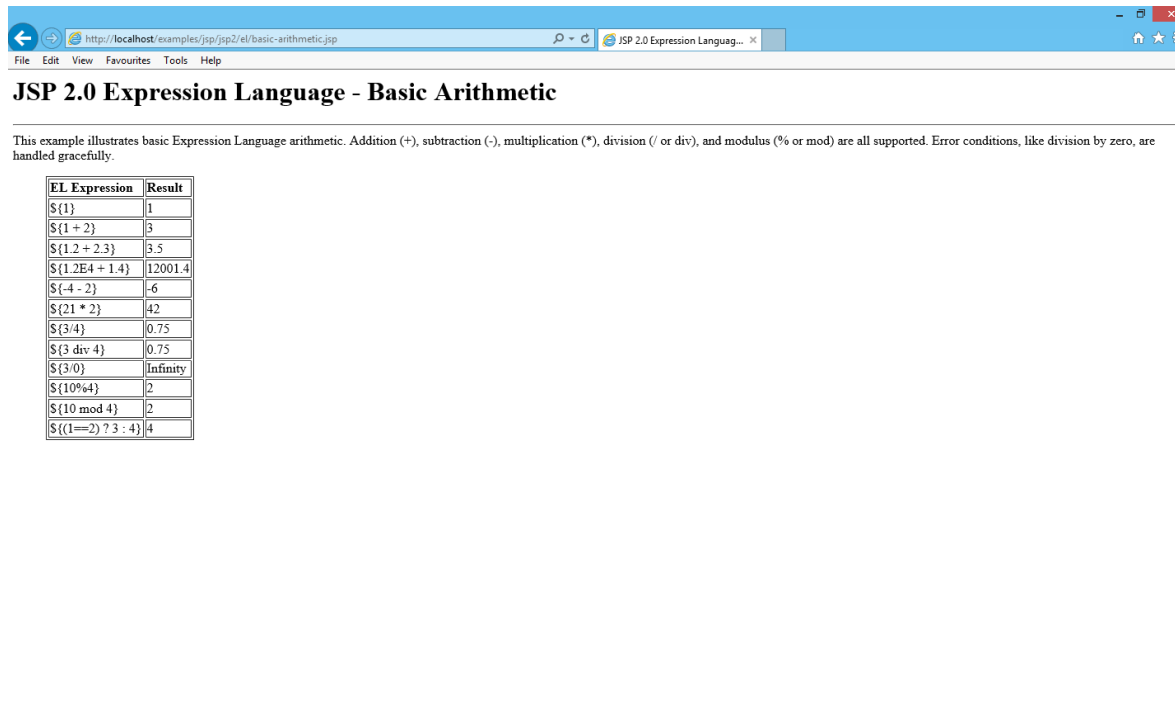


ISAPI_Redirector



ISAPI_Rewriter

- Restart IIS
- Restart tomcat



Now for the Uniface configuration...

URL Mapping - So how does this work?

```
<display-name>Uniface Web Request Dispatcher</display-name>
```

```
<!-- Uniface W(eb) R(equest) D(ispatcher) Servlet -->
```

```
<servlet>
```

```
<servlet-name>
```

```
wrd
```

```
</servlet-name>
```

```
<servlet-class>
```

```
com.compuware.uniface.urd.WRDServlet
```

```
</servlet-class>
```

```
<init-param>
```

```
<param-name>TESTABLE</param-name>
```

```
<param-value>true</param-value>
```

```
</init-param>
```

```
<init-param>
```

```
<param-name>USERUNPREFIX</param-name>
```

```
<param-value>>false</param-value>
```

```
</init-param>
```

```
<init-param>
```

```
<param-name>MIDDLEWARE</param-name>
```

```
<param-value>UV8:localhost+13001|userver|userver|wasv</param-value>
```

```
</init-param>
```

```
<!-- The settings ERRORDIR, RESOURCEDIR and WEBAPPURL are made optional -->
```

```
<!-- Do not use set them in a stand-alone web application -->
```

```
</servlet>
```

```
<servlet-mapping>  
  <servlet-name>wrd</servlet-name>  
  <url-pattern>/wrd/*</url-pattern>  
</servlet-mapping>
```

We are the files?

Tomcat Configuration:

C:\Program Files (x86)\Uniface\Uniface 9.7.01\uniface\webapps\uniface\WEB-INF\web.xml

urouter.asn:

C:\Program Files (x86)\Uniface\Uniface 9.7.01\common\adm\urouter.asn

wasv.asn

C:\Program Files (x86)\Uniface\Uniface 9.7.01\uniface\adm\wasv.asn

Urouter.asn

```
wasv = "C:\Program Files (x86)\Uniface\Uniface 9.7.01\common\bin\userver.exe"  
/dir="E:\DeveloperConference\project"  
/adm="C:\Program Files (x86)\Uniface\Uniface 9.7.01\uniface\adm"  
/asn=wasv.asn
```

Remember to stop/re-start Urouter

- Net stop ""
- Net start ""

What about the Developer?

Uniface Developer

idf.cmd

```
"C:\Program Files (x86)\Uniface\Uniface 9.7.01\common\bin\idf.exe"  
  /dir=e:\DeveloperConference\project  
  /ini=e:\DeveloperConference\project\usys.ini %1 %2 %3 %4
```

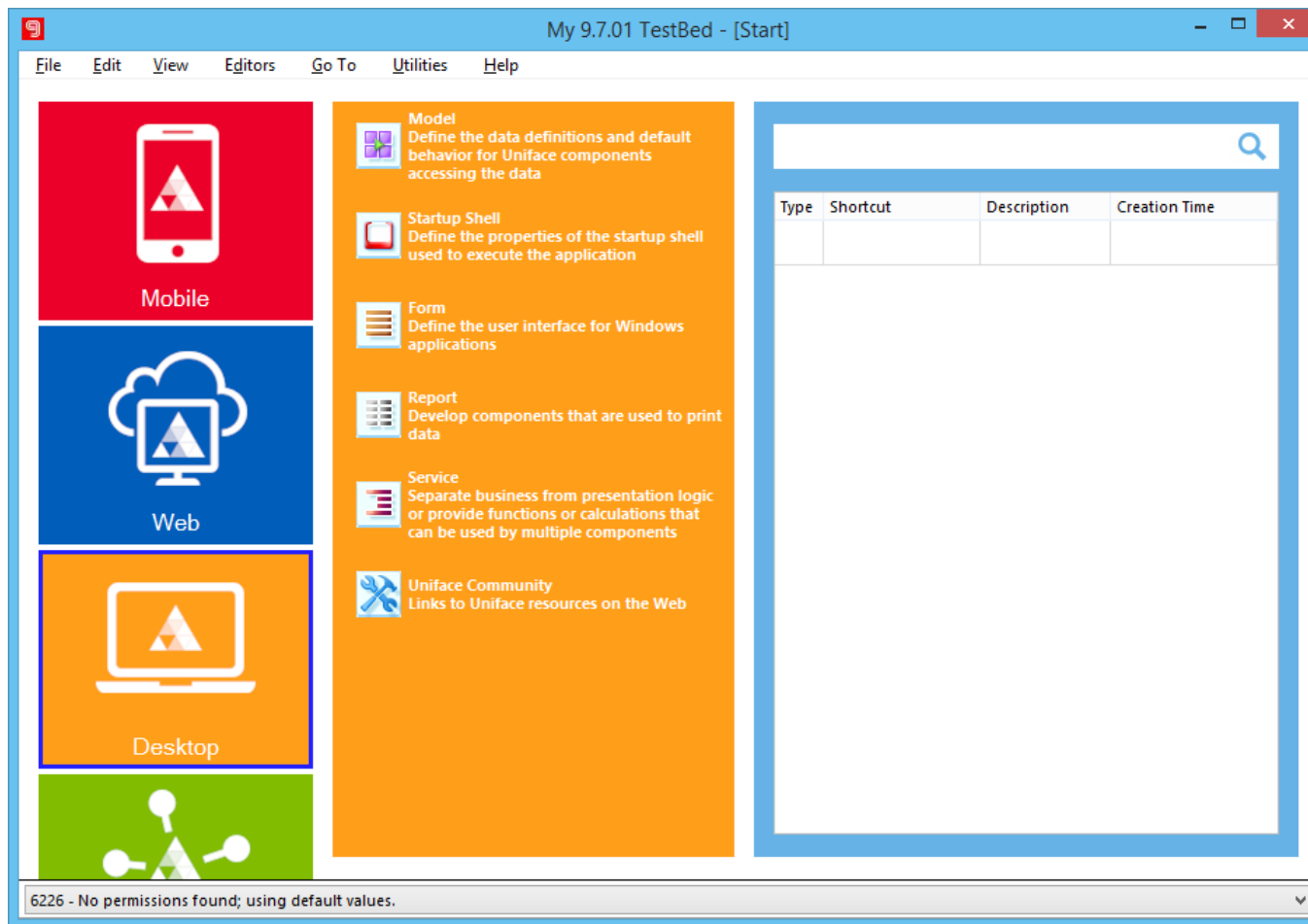
Localize USYS.INI

Localize IDF.ASN

Localize \$DBMS/\$DBMS_DEF

Set IDFTITLE

Now I know what environment I am running



Drawbacks

- You need to maintain USYS.ini
 - 9.6 -> 9.7
- Other changes made globally will not be reflected/inherited
- System UROUTER.ASN needs to be changed.

Thank You!

Q&A

UNIFACE
User Events