

# How to debug a D2W application

The first step is to turn on D2W debug mode in your app Properties file (if it isn't already).  
Set:

```
er.extensions.ERXApplication.developmentMode = true
```

## Walk-through

Your browser does not support the HTML5 video element

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## Advanced D2W Debugging

One of the most common problems to occur in a D2W application is that your rule that you've added just doesn't seem to be processed. There is a very useful tool to find out what rules are being processed to compute values for D2W keys:

D2W rule tracing.

## D2W Rule Tracing

Probably the easiest way to get rule tracing output is to add the following property in your run configuration in Eclipse (it's in the WO-Tab):

```
-D2WTraceRuleFiringEnabled true
```

When you run your application you will get output in the Eclipse console that looks like this:

```
Aug 10 08:50:17 ImmoData[56741] DEBUG NSLog - ***** fire :      0 :
*true* => startupTask = queryAll (0)
Aug 10 08:50:17 ImmoData[56741] DEBUG NSLog - ***** fire :      0 :
*true* => startupEntityName = null (0)
Aug 10 08:50:17 ImmoData[56741] DEBUG NSLog - ***** fire :     60 : (task
= 'queryAll') => pageName = templateNameForQueryAllPage
[er.directtoweb.assignments.ERDKeyValueAssignment] (60001)
Aug 10 08:50:17 ImmoData[56741] DEBUG NSLog - ***** fire :     20 :
*true* => templateNameForQueryAllPage = ERMODQueryEntitiesPage (20000)
Aug 10 08:50:17 ImmoData[56741] DEBUG NSLog (null) - ***** fire :      0 :
*true* => targetOutput = html (0)
Aug 10 08:50:17 ImmoData[56741] DEBUG NSLog (null) - ***** fire :      0 :
*true* => pageWrapperName = PageWrapper (0)
Aug 10 08:50:17 ImmoData[56741] DEBUG NSLog (null) - ***** fire :     20 :
(task = 'queryAll') => displayNameForPageConfiguration = Search All (20001)
```

Another way to turn on rule tracing is in your app Properties:

```
log4j.logger.er.directtoweb.rules.ERD2WTraceRuleFiringEnabled = DEBUG
```

Then say you were trying to debug what rule, or set of rules, were being processed to determining the class string applied to a Diva look component, you set:

```
log4j.logger.er.directtoweb.rules.class.fire = DEBUG
log4j.logger.er.directtoweb.rules.class.candidates = DEBUG
log4j.logger.er.directtoweb.rules.class.cache = DEBUG
```

Now when you launch your application and navigate to the page and/or component in question, you will see in the Console output, the D2W rules

fired to determine the class.