iRing Deployment Resources

# Verison 1.0.0 Downloads

* iRINGComponents-100.zip (http://secure.ids-adi.org/repository/org/ids-adi/camelot/Deliverables/iRINGComponents-100.zip)
* iRINGSDKDocumentation.pdf (http://secure.ids-adi.org/repository/org/ids-adi/camelot/Deliverables/iRINGSDKDocumentation.pdf)
* iRINGUserDocumentation.pdf (http://secure.ids-adi.org/repository/org/ids-adi/camelot/Deliverables/iRINGUserDocumentation.pdf)

# InterfaceService Prerequisites

* Java SE Runtime Environment 1.6.0\_12 (http://www.java.com/en/)
* Joseki SPARQL Endpoint 3.3 (http://sourceforge.net/project/showfiles.php?group\_id=71149&package\_id=176963)
* MySQL Community Server 5.1.32 (http://dev.mysql.com/downloads/mysql/5.1.html#win32)
* MySQL GUI Tools 5.0 R17 (recommended) (http://dev.mysql.com/downloads/gui-tools/5.0.html)

# WCF Services and Silverlight Prerequisites

Windows Server 2003 SP1 (recommended)

* IIS 6.0 with:
  + ASP.NET installed (http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Library/IIS/01563a60-038c-46d8-9a63-5104f5816767.mspx?mfr=true)
  + ASP.NET 2.0 registered (only do if neccessary) (http://msdn.microsoft.com/en-us/library/k6h9cz8h(VS.80).aspx)
  + Dynamic Content enabled (http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Library/IIS/a9fc0395-f03b-4213-9c62-1592bcfcf53f.mspx?mfr=true)
* .NET Framework 3.5 SP1 (http://www.microsoft.com/downloads/details.aspx?FamilyID=AB99342F-5D1A-413D-8319-81DA479AB0D7&displaylang=en)
* ADO.NET Entity Framework Provider and approptiate client software for database of your legacy application (e.g. SQLServer workstation components). (http://msdn.microsoft.com/en-us/data/dd363565.aspx)
  + Test Application Requires:
    - SQLite 3.6.11 (select command line tool) (http://www.sqlite.org/download.html)
    - SQLite ADO.NET 2.0 Provider 1.0.60.0 (included) (http://sourceforge.net/project/showfiles.php?group\_id=132486)

# iRING Interface Service

1. LSC: Add this step: Install Java SE Runtime Environment
2. Install Joseki into C:\Joseki-3.3 LSC: How is the installation done? Just unzip the file? (i.e., expand zip file to C:\Joseki-3.3). The unzip creates a folder called Joseki-3.3.0 so the result is C:\Joseki-3.3\Joseki-3.3.0. That doesn’t seem right.
3. Set JOSEKIROOT environment variable to C:\Joseki-3.3  
   (Recommended - variation requires a change to %JOSEKIROOT%\webapps\joseki\WEB-INF\web.xml after running mod\_joseki)  
   To set up the environment variable, follow steps below:
   1. Open Control Panel and select System.
   2. Go to the Advanced tab.
   3. Click the Environment Variables button. Select the "new" button for the upper frame to create a new environment variable LSC: System variable or User variable?
   4. Enter JOSEKIROOT as the Varible Name and C:\Joseki-3.3 as Variable Value
4. Setup an "iring" schema and user account with password "camelot" in MySQL database and provide privileges.

To set up "iring" schema, follow steps below:

* 1. Go to MySQL Administrator and click on Catalogs.
  2. In the window down below, right click and select Create New Schema.

To provide privileges to "iring" schema, follow steps below:

* 1. Go to MySQL Administrator and click on User Administration.
  2. Select iring and assign all the Available priveleges to Assigned Privileges.
  3. Click Apply changes.

1. LSC: Add this step: Unzip iRINGComponents-100.zip and use the files in the InterfaceService folder as specified in the following steps.
2. Run mod\_joseki from InterfaceService directory LSC: where does this file exist? From iRing components? When was I instructed to install this?
3. From JOSEKIROOT
   1. Modify setclasspath.bat according to your environment. LSC: Modify how? Need to be specific.
   2. Run setclasspath to configure the java environment for the following commands.
   3. Create the default graph in the MySQL database by running dbcreate data. LSC: Located in iRing components? I don’t know if it worked, because it went like a flash. How can you tell if this step succeeded?
   4. Create the Interface Service by running create-service. LSC: Located where?
   5. Start the Interface Service by running net start josekisvc. LSC: Failed
4. Browse the following Uri: <http://localhost:2020> LSC: Failed

# iRING WCF Services and Silverlight Apps

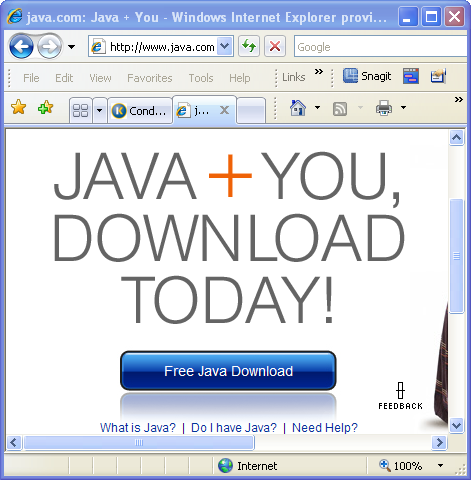
1. Create iRINGWeb folder on appropriate drive on the server.
2. Copy AdapterService, MappingEditor, RDSWIPEditor, and ReferenceDataService folders into the iRINGWeb folder.
3. Create an application for each subfolder of iRINGWeb from IIS Manager.
   * Select Read and Execute permission.
   * For IRINGFramework and RDSWIPEditor, add "application/x-silverlight-app" MIME Type for .xap file extension.
4. Edit AppSettings in each Web.config.
   * AdapterService (<http://localhost/AdapterService/Service.svc>)
     1. CSDLPath - Path of your CSDL file.
     2. connectionStrings\add where name="Entities"  
        (actually not under appSettings.) - This is the Entity Framework connection string. It contains the ADO.NET connection string for your legacy database as well as the location of Entity Framework artifacts, including CSDL file.
   * MappingEditor (<http://localhost/MappingEditor>) (<http://localhost/MappingEditor/Default.aspx>)
     1. AdapterServiceUri - Base URI of the AdapterService.
     2. AdapterProxyCredentialToken - Credential token for AdapterService proxy server.
     3. AdapterProxyHost - AdapterService proxy server name.
     4. AdapterProxyPort - AdapterService proxy port number.
     5. ReferenceDataServiceUri - Base URI of the ReferenceDataService.
     6. ReferenceDataProxyCredentialToken - Credential token for ReferenceDataService proxy server.
     7. ReferenceDataProxyHost - ReferenceService proxy server name.
     8. ReferenceDataProxyPort - ReferenceService proxy port number.
   * RDSWIPEditor (<http://localhost/RDSWIPEditor>) (<http://localhost/RDSWIPEditor/Service.svc>)
     1. OntologyServiceUri - Base URI of the ReferenceDataService.
   * ReferenceDataService (<http://localhost/ReferenceDataService/Service.svc>)
     1. ClassRegistryBase - URI of the RDSWIP part4 endpoint  
        (typically http://rdl.rdlfacade.org/data#).
     2. TemplateRegistryBase - URI of the RDSWIP part7 endpoint  
        (typically http://tpl.rdlfacade.org/data#).
     3. ProxyCredentialToken - Credential token for ReferenceDataService proxy server.
     4. ProxyHost - ReferenceDataService proxy server name.
     5. ProxyPort - ReferenceDataService proxy port number.

# Installation

## Prerequisites

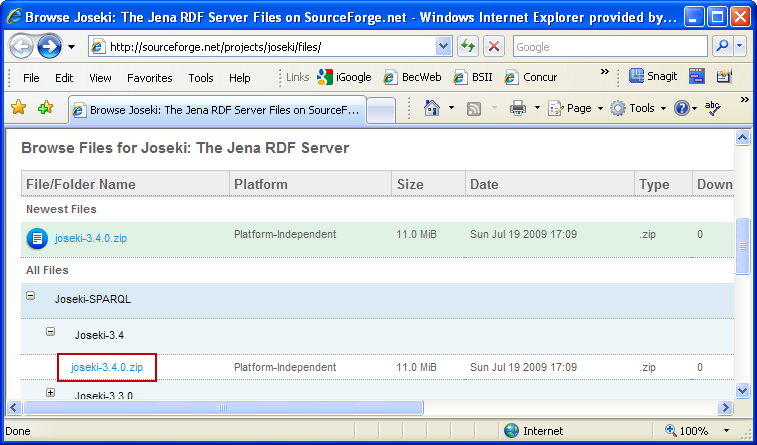
### Java SE Runtime Environment

1. Download and run the Java SE Runtime Environment 1.6.0\_12 or greater located at (<http://www.java.com/en/>)

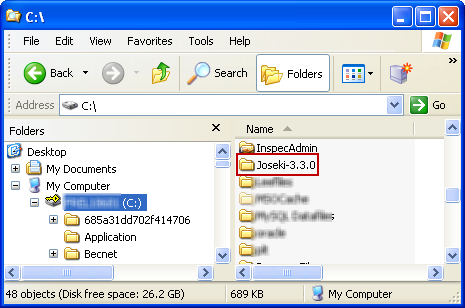


### Joseki SPARQL Endpoint 3.3

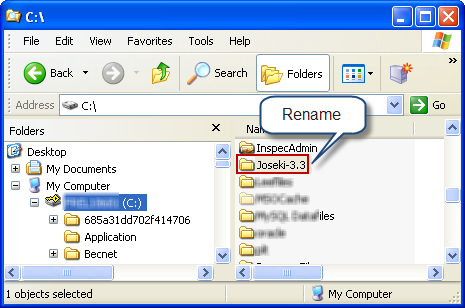
1. Download to a temporary location the file [joseki-3.4.0.zip](http://sourceforge.net/projects/joseki/files/Joseki-SPARQL/joseki-3.4.0.zip/download) from <http://sourceforge.net/project/showfiles.php?group_id=71149&package_id=176963>.



1. Extract joseki-3.4.0.zip to the C: drive root directory.



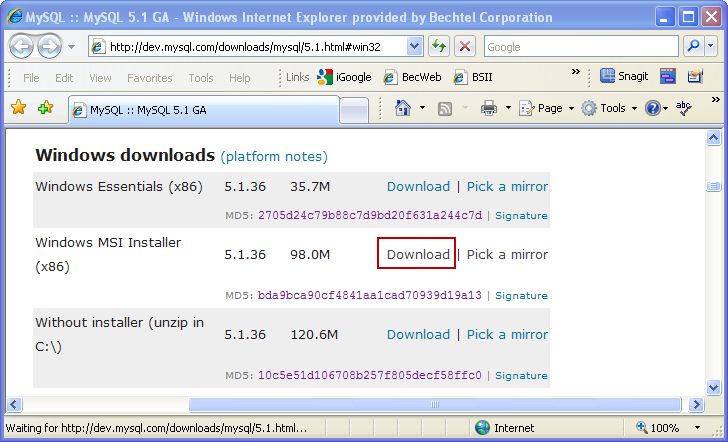
1. By default, the folder name is Joseki-3.3.0. Rename the folder to Joseki-3.3.



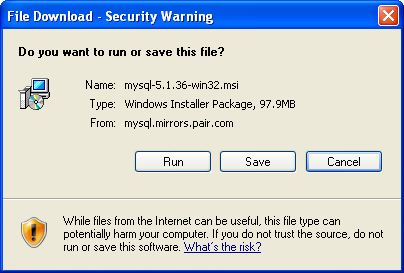
1. Final configuration will be done in later in this installation.

### MySQL Community Server

1. Install MySQL Community Server 5.1.32 or greater for Windows located at <http://dev.mysql.com/downloads/mysql/5.1.html#win32>.



1. Run the installation.



If IIS is installed after .NET, then execute the command

aspnet\_regiis -i

Remove 4.a

Change 4.b to make sure connectionstring is correct: it should be the database that is going to be mapped (e.g., Inspec):

Testing

<http://localhost/AdapterService/Service.svc/dictionary>

<http://localhost/AdapterService/Service.svc/mapping>

[~~http://localhost/AdapterService/Service.svc/data/valve~~](http://localhost/AdapterService/Service.svc/data/valve)

<http://localhost/AdapterService/Service.svc/data/Valve>

DataBroker interface = iRing graph map

Oracle Entity Framework data provider

Last step

C: create token: EncryptCredentials rxbenjam %1 iamers

D and E: get from internet options

Test: <http://localhost/ReferenceDataService/Service.svc/search/Valve>

Make sure that Jseki is started