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**Dispatcher User Guide**

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| **Date** | **Description** | **Version** | **Author** |
| 2013-06-09 | Initial document | 0.1 | Joey Jiang |
| 2013-06-26 | Adds “Server Configuration”. | 0.1.1 | Joey Jiang |

## Background

This guide is used for deploy Dispatcher and using Dispatcher.

## Deployment

The application is “dispatcher.war”, which need run on J2EE server, such as Tomcat.

We can download the “dispatcher.war” from official website.

## UI Design

## Database Modification

The application use xml file to store the data:

|  |  |  |
| --- | --- | --- |
| File Path | Comment | Related Page |
| {dispatcher root path}\data\ MachineTranslationProfiles.xml | Store the Machine Translation(MT) Profile data. | MT Profile Page |
| { dispatcher root path }\data\  Languages.xml | Store the MT Profile, Source Locale and Target Locale relation data. | Languages Page |

## Upgrade

Update the war file in server.

## Inputs and Outputs

**The URL to display the Dispatcher**:

<http://localhost:8888/dispatcher>

Note: <http://localhost:8888> is my J2EE server path.

**The URL to translate a sing word from English to Chinese:**

http://localhost:8080/dispatcher/translate/?srcLang=en\_US&trgLang=zh\_CN&src=Hello World

Then output is:

{"srcLang":"en\_US","errorMsg":null,"trgLang":"zh\_CN","src":"Hello World","trg":"世界您好","status":"success"}

**Parameter Description**

|  |  |
| --- | --- |
| Parameter Name | Parameter Description |
| srcLang | Source Language, such as en\_US |
| trgLang | Target Language, such as zh\_CN |
| src | Source Text |
| trg | Target Text |
| status | Translation Status, such as success or fail. |
| errorMsg | Error message when status is fail. |
|  |  |

## Server Configuration

The Dispatcher Server needs some configuration:

1. Modify Encoding to support special character.

In Tomcat 7, modification file is {Server Path}/conf/server.xml,

And the related server parameter is

<Connector port="8888" protocol="HTTP/1.1" ="20000" redirectPort="8443" URIEncoding="UTF-8"/>

1. Set a proper PermGen Space.

In Tomcat 7, modification file is {Server Path}/bin/catalina.bat

And the related server parameter is

set JAVA\_OPTS=%JAVA\_OPTS% -server -XX:PermSize=128M -XX:MaxPermSize=512m