# Overview

These instructions tell a developer how to configure your development environment to do true multi-tenant testing, meaning to be able to run more than one org DB from a single servlet.

This document is current as of the code to be checked in 2016-3-7.

# Configuration file changes

You will find four new configuration files to use as templates:

|  |  |
| --- | --- |
| **File** | **Summary of changes** |
| config\MT-context.xml | * The context path is / instead of /linux01 as a context path. This allows requests for all orgs to get to the servlet. |
| config\MT-sdi.ini | * All instances of linux01 are replaced with %org\_site\_name%. This is obtained from the URL of the request and substituted into the sdi.ini values as they are read. * Except in URLs for shared resources. E.g., instead of images=/linux01/images, we have images=/images. Because the context path is /, the resources are relative to it. |
| config\MT-service.properties | * Jdbc.url has substitution parameters %org\_site\_dbserver% and %org\_site\_name%. %org\_site\_dbserver% is obtained by looking up %org\_site\_name% in the ActiveNetSites DB (details below). |
| jetty-web\MT-web.xml | * The filter-mapping for the organization-context-filter to map just based on /\*. In this way, it is not necessary to provide separate sets of WS mappings for each org which might be on the servlet. * The servlet-mapping for web services has been simplified. |

Save a copy of your existing files, then copy or rename these as your own. I think these should pretty generic for developers using local DBs, but you might need to make adjustments based on your old files.

Once the basic plumbing of MT operation has been tested, it is expected these will become the standard files, and there will be no more MT-specific version.

# ActiveNetSites setup

The basic request flow is this:

* From a request like <http://localhost:8080/ymcala/servlet/processAdminLogin.sdi>, “ymcala” is extract from the URL as the org name.
* The org name is used to lookup the appropriate OrgContext for that org; a new one is created if necessary.
* During the init(), the orgname is used to lookup the database pool for that org in ActivenetSites.
* The jdbc.url property in service.properties must have substitution parameters: %org\_site\_dbserver% for the DB server name or IP (and optionally port), and %org\_site\_name% for the database name.

A new script is in DBSchema, p\_create\_orgsite.sql. It creates a proc in ActiveNetSites, which you can use to create all the necessary ActivenetSites records to make an existing org DB work in multi-tenant. You can execute it in two ways:

* If your ActivenetSites DB has a single database pool, you can just execute it like this:

Exec p\_create\_orgsite ‘orgname’

* Otherwise, specify the name of the database server (i.e., “LocalHost”)

Exec p\_create\_orgsite ‘orgname’, ‘localhost’

If orgname ends with ‘trainer’, it will create a trainer site, otherwise a non-trainer site.

What it does is:

* Create a database pool in the POOLS table if necessary
* If there is no report pool in the POOLS table, it will create one
* If there is no ORG matching the name you provide (without the ‘trainer’), it will create the org
* If there is no ORGSITE for that org with the appropriate trainer flag, it will create the orgsite.

# Other testing notes

* When executing a URL, it appears the orgname must be lower case. So even if the database is named “ActiveNetServlet”, the URL must begin with:

http://localhost:8080/activenetservlet/servlet/

# Basic operation test cases

Basic MT servlet operation: Login to org 1 in one browser tab; login to org 2 in another tab: Org-specific data should be provided in each org

Flex / WS basic operation: Load ECV in each org; confirm different customers appear in searches

Other resource paths:

* Sounds (membership boing)
* images (header buttons)
* jquery (if wrong, menu won’t display, etc.)

Web service WSDL operation. Confirm the following give the WSDL:

* /ActiveNetWS?wsdl
* /org/ ActiveNetWS?wsdl
* /org/servlet/ ActiveNetWS?wsdl
* /ActiveNetPrivateWS?wsdl
* /ActiveNetPublicWS?wsdl

Trainer operation: Configure a trainer database in ActivenetSites and confirm it works

Filedata: ???