

Integrow Version 2004.1
INTER-ACTIVE DELIVERY SYSTEM IMPACT

Section 1.8. Inter-active Delivery System Impact

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Change Request#: **16286**

Inter-Active Delivery System Impact:

Program fragment for Servlets

Fragment 1

The new user object is used similarly to the older student/employee object. The **bolded** sections are required for security, providing session control and module level security

```
// create the program object
IAW006N0b faawd = new IAW006N0b();

HttpSession session = request.getSession(true);

// check for valid session

if (!IAU090N0b.isUserLoggedIn(session, response, request)) {
    return;
}

// check module level security

IAU080N0b moduleAccess =
    ModuleSecurityb.getAccess(session, request, response, true);

    if (moduleAccess == null) {
        return;
    }

// get the user from the session object
IAU090N0b user = (IAU090N0b) session.getAttribute("user");

// get the user.id and use it to set the STUDENT_ID
faawd.setStudentID(user.getUserId(user.STUDENT));
```

Other user types are available as the following constants;
From **security.IAU090N0b.java**

Primarily the STUDENT and EMPLOYEE object.

```
public static final int USER = 0;
public static final int EMPLOYEE = 1;
public static final int EMPLOYEE_PAYROLL = 2;
public static final int EMPLOYEE_FACULTY = 3;
public static final int STUDENT = 4;
public static final int APPLICANT = 5;
```

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The above code (**Fragment 1**) must be present in every **Servlet** to prevent unauthorized persons from accessing the programs and data.

Java Server Pages (JSP) are similarly protected with this kind of code ...

From the beginning of each protected JSP.

```
<%@ include file="/navigate/header.inc" %>
<%@ include file="/navigate/sitemenu.inc" %>
<%@ include file="/navigate/studentmenu.inc" %>
<%@ include file="/navigate/studentloggedon.jsp" %>
```

This line "`<%@ include file="/navigate/studentloggedon.jsp" %>`" contains the following ...

// The session is validated and the security status of the page is checked.

```
<%
  if (!security.IAU090N0b.isUserLoggedIn(session, response, request)) {
    return;
  }
%>

<%
security.IAU080N0b moduleAccess =
security.ModuleSecurityb.getAccess(session, request, response, true);
  if (moduleAccess == null) {
    return;
  }
%>
```

For employee pages use

```
" <%@ include file="/personnel/security/employeeloggedon.jsp" %>"
```

instead of `<%@ include file="/navigate/studentloggedon.jsp" %>`

This loads similar code to check for a valid session and check the access control of the page the user wishes to visit.

In all cases simply include either "employeeloggedon" or studentloggedon"

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Change Request#: **16289**

Inter-Active Delivery System Impact:

New configuration and setup of SQL database.

An SQL database with 2 tables is required for this implementation:
The database is structured like this:

Database name: college

Table name webproperties
 webpropertiesdetail

NOTE: To ensure cross platform interoperability, the spelling case of both the database name and table names is significant. While this is not an issue with Windows based servers, it is one with Unix and Linux based systems. Therefore, all database names and table names will be all lowercase for consistency. However, the actual SQL commands used for accessing and manipulating the data are case insensitive.

Table Layouts

webproperties

| Field | Type | Null | Key | Default | Extra |
|--------------|-------------|------|-----|---------|-------|
| ServerName | varchar(50) | | PRI | | |
| PropertyType | varchar(50) | | PRI | | |
| PropertyDesc | text | YES | | NULL | |

webpropertiesdetail

| Field | Type | Null | Key | Default | Extra |
|---------------|--------------|------|-----|---------|-------|
| ServerName | varchar(50) | | PRI | | |
| PropertyType | varchar(50) | | PRI | | |
| FieldName | varchar(100) | | PRI | | |
| FieldValueSeq | int(4) | | PRI | 0 | |
| FieldValue | text | YES | | NULL | |
| FieldDesc | text | YES | | NULL | |

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You will need to create the empty database to hold the tables

```
-- MySQL dump 9.10
--
-- Host: localhost      Database: college
-----
-- Server version      4.0.17-max-debug
--
-- Table structure for table `webproperties`
--

CREATE TABLE webproperties (
  ServerName varchar(50) NOT NULL default '',
  PropertyType varchar(50) NOT NULL default '',
  PropertyDesc text,
  PRIMARY KEY (ServerName,PropertyType)
) TYPE=MyISAM;
-- MySQL dump 9.10
--
-- Host: localhost      Database: college
-----
-- Server version      4.0.17-max-debug
--
-- Table structure for table `webpropertiesdetail`
--

CREATE TABLE webpropertiesdetail (
  ServerName varchar(50) NOT NULL default '',
  PropertyType varchar(50) NOT NULL default '',
  FieldName varchar(100) NOT NULL default '',
  FieldValueSeq int(4) NOT NULL default '0',
  FieldValue text,
  FieldDesc text,
  PRIMARY KEY (ServerName,PropertyType,FieldName,FieldValueSeq)
) TYPE=MyISAM;
```

jdbcodbc.properties

FCCSC_DRIVER=com.mysql.jdbc.Driver

FCCSC_DATABASE=jdbc:mysql://localhost:3306/fccsc

FCCSC_USER_ID= myusername

FCCSC_PASSWORD= mypassword

FCCSC_DATASOURCE=

COLLEGE_DRIVER=com.mysql.jdbc.Driver

COLLEGE_DATABASE=jdbc:mysql://localhost:3306/college

COLLEGE_USER_ID=mypassword

COLLEGE_PASSWORD=mypassword

COLLEGE_DATASOURCE=

SITE_DRIVER=com.mysql.jdbc.Driver

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```
SITE_DATABASE=jdbc:mysql://localhost:3306/site
SITE_USER_ID=myusername
SITE_PASSWORD=mypassword
SITE_DATASOURCE=
```

PROPERTIES_LOCATION=MySQL

```
SERVER_NAME=MyServerName
```

User Administration

It is necessary to add a user with a password with access to the “college” database, give this user sufficient privilege to update, insert, delete at the very least. You may wish to consult with your DBA.

This user will be referenced in the propertyfile “**jdbcodbc.properties**”

This following is a portion of this propertyfile.

jdbcodbc.properties

....

```
COLLEGE_DRIVER=com.mysql.jdbc.Driver
COLLEGE_DATABASE=jdbc:mysql://localhost:3306/college
COLLEGE_USER_ID=myusername
COLLEGE_PASSWORD=mypassword
COLLEGE_DATASOURCE=
```

Note: The COLLEGE_DRIVER refers to the jdbc database driver which is provides connectivity between the database and the application. Each driver is specific to the database. The naming of the driver is dependent on its developer(s). The access style “COLLEGE_DATABASE =” is also dependent on the database driver developer. Please refer to documentation provided by your database vendor for details.

The **PROPERTIES_LOCATION**

PROPERTIES_LOCATION key is what determines whether the SQL database is the source of the properties or if the normal *.properties files are used instead. Setting the **PROPERTIES_LOCATION=File** (**Note** the uppercase “F”, will cause the system to use the normal property- file based properties, **ANY** other word will cause it to use the SQL database.

Initial loading of Database records

Once the “college” database has been created, it is now ready for its initial load of database records. The data in question is the existent group of property files. The utility program “standalone.conversion.LoadFromPropertyFiles” and the current property files will load the empty “college” database and populate it with all current property files and records. During this process the database must be running and available, so that the new records can be added.

1. Create a temporary directory on your machine (preferably at top level, without spaces) and copy the current group of property files into this directory. Edit the bat file /bat/loadfromproperties.bat and point SOURCEDIR to this directory:
2. For example, assuming the temporary directory name is C:\work then SOURCEDIR=c:/work/

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3. Save the edited file
4. **Note:** Also copy the new version of “**modulesecurities.properties**” into the directory as well. **This must be done now, in order to enable access to the web applications.**
5. Execute the batch program /bat/oadfromproperties.bat. The program will read the property files and insert their data into the “college” database.
6. At this time, you should verify that the file based property, **jdbcodbc.properties** has been configured for your database environment **AND** that the PROPERTIES_LOCATION is now set to DATABASE (or anything other than “File”). Restart the Java Server, to force the application to use the database rather than the flat files. You may leave the old files in place.
7. **NOTE:** **Jdbcodbc.properties** and **log4j.properties** **MUST** remain in the **/WEB-INF/classes** directory, the system needs them to be available as files --- They are not read from the database. The system will not work without them.

Once the initial load is done, you will be able to edit individual files and values through a web based interface, located within the personnel sub tree called “maintain properties”.

Screen 1-2

You may select the resource you wish to work with by clicking on the “**Change**” button. Located at the bottom of the page is “**Add new properties**” to create blank property tables.

Note that the headings show that most properties are labeled as “ALL”. This refers to them as global properties. It is possible to have a single database server instance server multiple java server instances (on remote machines even). In most cases, many of the properties will be the same across servers. Certain values will be different (namely the file based locations). Creating properties with a different server name allows you to maintain these differences without copying all the properties values to the new server name. It is only necessary to add the property/values which are different to the new server name. In the screen below, note the Server “maint” and “port”. Refer to screen 3 and 4 for more detail.

Screen 3 shows the new blank screen. You would change Servername “ALL” and enter the property file name that you wish to use with customization.

Screen 4 shows and example of the “maint” server with custom properties in the “broker” group.

Note that I have only added one or two file based properties, the rest of the properties will be loaded from “ALL”.

One more step is needed to allow the more than one server instance to be loaded. You must edit the jdbcodbc.properties file on the machine that you have identified as needing different resources. You must change the SERVER_NAME to correspond to the newly setup server name in the database. So on the server which I have identified as needing “maint” properties, I have edited the line to read: SERVER_NAME=maint

Other features

You may also delete property “tables”. Doing so will permanently remove the property group that you select to be deleted. The button is labeled “**Delete Table**”

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Final notes: Be aware that these screens are controlled by java sessions with a timeout value. I recommend that you update each time you change a record, to ensure that your work is not lost due a session timeout.

Screen 1

| Maintain Properties | | | | |
|-----------------------|-----------------------|-------------|----------------|---|
| Change | Reload | Server Name | Property Type | Description |
| <input type="radio"/> | <input type="radio"/> | ALL | | null |
| <input type="radio"/> | <input type="radio"/> | ALL | advising | Text strings etc. for advising customization |
| <input type="radio"/> | <input type="radio"/> | ALL | beancontrol | Loaded from property file beancontrol.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | broker | Loaded from property file broker.properties |
| <input type="radio"/> | <input type="radio"/> | maint | broker | Maintenance (Dev) environment |
| <input type="radio"/> | <input type="radio"/> | port | broker | PORT instance |
| <input type="radio"/> | <input type="radio"/> | ALL | brokercc | Loaded from property file brokercc.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | campus | Loaded from property file campus.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | classtatus | Loaded from property file classtatus.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | classtypes | Loaded from property file classtypes.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | colors | Loaded from property file colors.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | creditcard | Loaded from property file creditcard.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | creditcard_int | Loaded from property file creditcard_int.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | creditcard_ivr | Loaded from property file creditcard_ivr.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | creditcard_web | Loaded from property file creditcard_web.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | da | Loaded from property file da.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | display | Loaded from property file display.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | effterm | Loaded from property file effterm.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | empaddrtype | Loaded from property file empaddrtype.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | empcity | Loaded from property file empcity.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | empcountry | Loaded from property file empcountry.properties |

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Screen2

| | | | | |
|----------------------------------|-----------------------|-----|-------------------|--|
| <input type="radio"/> | <input type="radio"/> | ALL | effterm | Loaded from property file effterm.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | empaddrtype | Loaded from property file empaddrtype.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | empcity | Loaded from property file empcity.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | empcountry | Loaded from property file empcountry.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | employeeoptions | Loaded from property file employeeoptions.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | empphonetype | Loaded from property file empphonetype.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | empstate | Loaded from property file empstate.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | errmsg | Loaded from property file errmsg.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | facts | Loaded from property file facts.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | faid | Loaded from property file faid.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | feetype | Loaded from property file feetype.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | finaid | Loaded from property file finaid.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | financialstatus | Loaded from property file financialstatus.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | jdbcodbc | null |
| <input type="radio"/> | <input type="radio"/> | ALL | mime | Mime types |
| <input checked="" type="radio"/> | <input type="radio"/> | ALL | modulesecurity | Loaded from property file modulesecurity.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | postlogon | Loaded from property file postlogon.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | proxy_broker | Loaded from property file proxy_broker.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | redirect | Loaded from property file redirect.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | security | Loaded from property file security.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | siteaddress | Loaded from property file siteaddress.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | specialdesg | Loaded from property file specialdesg.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | statusdesc | Loaded from property file statusdesc.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | statusmisssdoc | Loaded from property file statusmisssdoc.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | subjectarea | Loaded from property file subjectarea.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | systemunavailable | Loaded from property file systemunavailable.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | titlecase | Loaded from property file titlecase.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | webservice | Loaded from property file webservice.properties |
| <input type="radio"/> | <input type="radio"/> | ALL | WebSupport | Loaded from property file WebSupport.properties |

Add New Properties

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Screen 3

Maintain Properties Detail
for Server Name: Property Type:

Server Name
Property Type

Property Description

null

| Field Name | Field Value | Description |
|----------------------|----------------------|-------------|
| <input type="text"/> | <input type="text"/> | |
| <input type="text"/> | <input type="text"/> | |
| <input type="text"/> | <input type="text"/> | |
| <input type="text"/> | <input type="text"/> | |

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Screen 4

Maintain Properties Detail
for Server Name: maint Property Type: broker

Property Description

Maintenance (Dev1) environment

| Field Name | Field Value | Description |
|----------------|-----------------------------------|-------------|
| DATA_DIRECTORY | /opt/JRun31/servers/default/dev1/ | |
| TRACEDIR | /opt/JRun31/servers/default/dev1 | |
| | | |
| | | |
| | | |

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

Change Request#: **16291**

Inter-Active Delivery System Impact:

Broker Server Commands: The following new Broker Server commands were added.
CLSSR, CLSS2, CLSL1, CLSL2, CLSL3, CLSL4, UTTB2.
Please see the Table Change section for details on each command.

Server Settings:

We recommend that each server have 2G of memory and 1G of heap in Jrun. To change the heap setting in Jrun, log on to the Admin console, click on Jrun Default server, and then click on Java settings on the left.

In the Java Settings panel on the right, click on Java Arguments to edit this setting. The heap setting begins with -Xmx and ends with a number.

The default setting is -Xmx128M.

Change this setting to -Xmx1G.

Include Files:

The following include files were added **or modified** and must be maintained by each school.

Campus

```
<option value="1">Lake Worth Campus
<option value="19">Lake Worth--off campus
<option value="2">Palm Beach Gardens Campus
<option value="29">Palm Beach Gardens--off campus
<option value="3">Belle Glade Campus
<option value="39">Belle Glade--off campus
<option value="5">Boca Raton Campus
<option value="59">Boca Raton--off campus
```

classtatus

```
<option value="A">All Classes
<option value="C">Cancelled
<option value="F">Full
<option value="H">Held
<option value="O" selected>Open/Available
<option value="U">Unavailable
```

classtype

```
<option value="A" selected>All Types
<option value="C">Credit
<option value="N">Non-Credit
```

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location

```
<OPTION SELECTED VALUE="ANY" >Any
<option value="1">Lake Worth Campus
<option value="19">Lake Worth--off campus
<option value="2">Palm Beach Gardens Campus
<option value="29">Palm Beach Gardens--off campus
<option value="3">Belle Glade Campus
<option value="39">Belle Glade--off campus
<option value="5">Boca Raton Campus
<option value="59">Boca Raton--off campus
```

session

```
<option value="*" selected>All Sessions
<option value="1">08/21/2002 - 12/17/2002 Main Session
<option value="2">08/21/2002 - 10/16/2002 1st Eight Weeks (Express A)
<option value="3">09/16/2002 - 12/17/2002 12 Week Session
<option value="4">10/17/2002 - 12/17/2002 2nd Eight Weeks (Express B)
```

subjectarea

```
<option value="ACG,ACO,APA,TAX">Accounting
<option value="TPP">Acting
<option value="ASC,ATF,ATT,AVM">Aeronautics/Aviation Science
<option value="ACR">Air Conditioning and Refrigeration
<option value="AMH">American History
<option value="AML">American Literature
<option value="BSC">Anatomy and Physiology
<option value="ANT">Anthropology
<option value="PMT">Applied Welding Technology
<option value="ARC">Architectural Design
<option value="BCN,ETD,TAR">Architectural Drafting
<option value="ART">Art
<option value="ARH">Art History
<option value="AST">Astronomy
<option value="AER,ARR">Automotive Repair and Service
<option value="BOT,BSC,MCB,OCE,PCB,ZOO">Biological Sciences
<option value="APA">Bookkeeping
<option value="BOT">Botany
<option value="BCV">Bricklayer
<option value="BCN,BCT,BCV,PMT">Building Construction
<option value="BAN,GEB">Business
<option value="BUL">Business Law
<option value="BCV">Carpentry
<option value="CHM">Chemistry
<option value="CHD,DEP">Child Care and Development
<option value="EAP,ENC,ESL,MAT,REA">College Preparatory Courses
<option value="ART,GRA">Commercial Art
<option value="CDO">Commercial Driving
<option value="HMV">Commercial Foods
<option value="ETD">Computers-Drafting
<option value="CEN,CET,CGS,CIS,COP">Computers-Engineering, PC Support,
Programming and Technology
<option value="CGS">Computers-General Studies
<option value="COS,CSP">Cosmetology
<option value="CRW">Creative Writing
<option value="CCJ,CJD,CJT">Criminal Justice
<option value="DAA,DAN">Dance
```

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```
<option value="DEA">Dental Assisting
<option value="DEH,DES">Dental Hygiene
<option value="DIE,FSS,HUN">Dietetics
<option value="EGS,ETD,ETG,ETI">Drafting and Design
<option value="EEC">Early Childhood Education
<option value="APB,PCB">Ecology
<option value="ECO,ECS">Economics
<option value="EEC,EDF,EDG,EDP,EME,MAE,SCE">Education
<option value="CET,EST">Electrical
<option value="EET,EEV">Electronics Engineering and _Technology
<option value="EMS">Emergency Medical Services
<option value="EMS">Emergency Medical Technician
<option value="EGS,ETD,ETI,ETM">Engineering Technology
<option value="EAP,ESL">English as a Second Language
<option value="AML,CRW,ENC,ENL,LIT">English Language/Literature
<option value="GCO,ORH,PLS,PMA,SOS">Environmental Horticulture
<option value="EVR,EVS,GLY,PCB">Environmental Science
<option value="COS,CSP">Facial Specialist
<option value="FIL,RTT,RTV">Film, Television, and Video Production Technology
<option value="FIN">Finance
<option value="FFP">Fire Fighter and Fire Science
<option value="BCA">Fire Sprinkler
<option value="FOS,FSS,HMV">Food Science
<option value="FOL">Foreign Language/Field Studies
<option value="FRE">French Language
<option value="GEO">Geography
<option value="GLY">Geology
<option value="GER">German Language
<option value="GEY">Gerontology
<option value="CPO,POS">Government
<option value="GRA">Graphic Arts/Graphic Design
<option value="HSC">Health Education, Safety and Sciences
<option value="DIM">Heavy Duty Truck/Bus Mechanics
<option value="HIS">History
<option value="HFT">Hospitality
<option value="HUS">Human Services
<option value="HUM">Humanities
<option value="RMI">Insurance, Annuities and General Lines
<option value="IDH,IDS">Interdisciplinary
<option value="IND">Interior Design
<option value="INR">International Studies
<option value="PMT">Iron Worker
<option value="ITA">Italian Language
<option value="JOU">Journalism
<option value="PLA">Legal Assistant
<option value="LIS">Library Science (Research)
<option value="AML,ENL,LIT">Literature
<option value="MAN,MNA">Management
<option value="ETI">Manufacturing, Robotic/Automated
<option value="MAR,MKA">Marketing
<option value="MMC">Mass Communications
<option value="MSS">Massage Therapy
<option value="ETM">Materials Engineering
<option value="MAC,MAP,MAT,MGF,MTB">Mathematics
<option value="ETD">Mechanical Drafting
<option value="HIM,MEA,MRE,MTS,OST,OTA">Medical Assisting, Coding, Secretary
and Transcription
<option value="MVB,MVJ,MVK,MVP,MVS,MVV,MVW">Music-Applied
<option value="MUC,MUE,MUH,MUL,MUN,MUS,MUT">Music-General
<option value="COS,CSP">Nail Specialist
<option value="NUR">Nursing
<option value="DIE,HUN">Nutrition
```

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```
<option value="OTH">Occupational Therapy Assistant
<option value="OCE">Oceanography
<option value="OCA,OFT,OST,OTA">Office Systems and Applications
<option value="PLA">Paralegal
<option value="EMS">Paramedic
<option value="HCP">Patient Care Technician
<option value="IPM">Pest Management
<option value="PHI">Philosophy
<option value="PGY">Photography
<option value="HLP,PEL,PEM,PEN,PEO,PEP,PET">Physical Education and Fitness
<option value="AST,GLY,PSC">Physical Science
<option value="PHY">Physics
<option value="PMT">Pipefitter
<option value="BCV">Plasterer
<option value="BCV">Plumbing
<option value="POS">Political Science
<option value="PRN">Practical Nursing
<option value="ASC,ATF,ATT,AVM">Professional Pilot Technology
<option value="CLP,DEP,PSY,SOP">Psychology
<option value="PUR">Public Relations
<option value="CJD">Public Safety Telecommunicator
<option value="RTE">Radiography
<option value="REA">Reading (College Preparatory)
<option value="REE">Real Estate
<option value="REL">Religion
<option value="RET">Respiratory Care
<option value="PMT">Sheet Metal
<option value="ISS,SYG,SSI">Social Sciences
<option value="SOW">Social Work
<option value="SYG">Sociology
<option value="SPN">Spanish Language
<option value="SPC">Speech Communications
<option value="STA">Statistics
<option value="SLS">Student Life Skills
<option value="STS">Surgical Technology
<option value="SUR">Surveying, Land
<option value="TAX">Taxes
<option value="RTV">Television
<option value="THE,TPA,TPP">Theater Arts
<option value="PMT">Tile Setter
<option value="EVS">Water/Waste Water Management
<option value="OST">Word Processing
<option value="WOH">World History
<option value="ZOO">Zoology
```

term

```
<option value="20042">Spring Term 2004 - 01/06/2004 - 5/06/2004
<option value="20041">Fall Term 2003 - 08/20/2003 - 12/16/2003
```

* The Term values must be updated to include the terms you want the Student to be able to search on.

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time

```
<option value="ANY">Any Time
<option value="0000000">Midnight
<option value="0100000">1:00 am
<option value="0200000">2:00 am
<option value="0300000">3:00 am
<option value="0400000">4:00 am
<option value="0500000">5:00 am
<option value="0600000">6:00 am
<option value="0700000">7:00 am
<option value="0800000">8:00 am
<option value="0900000">9:00 am
<option value="1000000">10:00 am
<option value="1100000">11:00 am
<option value="1200000">Midday
<option value="1300000">1:00 pm
<option value="1400000">2:00 pm
<option value="1500000">3:00 pm
<option value="1600000">4:00 pm
<option value="1700000">5:00 pm
<option value="1800000">6:00 pm
<option value="1900000">7:00 pm
<option value="2000000">8:00 pm
<option value="2100000">9:00 pm
<option value="2200000">10:00 pm
<option value="2300000">11:00 pm
```

The following Property Files are used and must be maintained by each school.

beancontrol

```
ClassesData-SearchTerm0=20041
ClassesData-SearchTerm1=20042
ClassesData-SearchTerms=2
ClassesData-InitialVectorSize=3000
ClassesData-RefreshInterval=1800
ClassesData-Search=Remove
ClassesData-Server0=http://webservices1.fccsc.org/FCCSC
ClassesData-Server1=http://webservices2.fccsc.org/FCCSC
ClassesData-ServerCount=2
Scratchpad-Memory=Yes
```

Multiple Search Terms can be specified. These terms must match the terms specified in the the term.inc file.

If additional terms are included, the ClassesData-SearchTerms field must also be incremented.

The ClassesData-RefreshInterval specifies the amount of time the passes between the data being reloaded. Depending on the usage, this value can be increased or decreased. For example, in test, this value can be set high and the data only be refreshed once a day.

If you are using multiple servers, they must be specified here and the ClassesData-ServerCount incremented to match the number of servers.

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

broker

```
BROKER_ID=www.fccsc.org:9999
CLASS=FCCSC
NAME=WEB
SERVICE=PROD
FCCSC_TRACEON=0
BROKER_TRACELVL=0
SECURITYLOG=fccsc_security.log
#TRACEDIR=/opt/JRun/servers/default/devl/logs
TRACEDIR=d:\\program files\\allaire\\jrun\\logs
TRACEFILE=fccsc.log
ERR_SMTP_HOST=fccsc.org
ERR_PORT=25
ERR_TO_ADDRESS=help@fccsc.org
ERR_FROM_ADDRESS=help@fccsc.org
WHOPTIONS=N
BASE_DIRECTORY=/FCCSC
DOC_ROOT=D:\\Program Files\\Allaire\\JRUN\\servers\\default\\FCCSC\\
DATA_DIRECTORY=D:\\Program Files\\Allaire\\JRUN\\servers\\default\\FCCSC\\WEB-
INF\\data\\
EMAIL_SUFFIX=@fccsc.org
EMAIL_CC1=help@fccsc.org
SITE_FROM_ADDRESS=help@fccsc.org
SITE_TO_ADDRESS1=hrperson@yourschools
```

The DATA_DIRECTORY contains the data from the Memory Class Search. It is essential that Write Access is available to this directory.

If you are running more than one Web Server, you will need to have different Broker Properties files defined on each Server.

This is an example of Broker.properties on the second server.

```
BROKER_ID=www.fccsc.org:9999
CLASS=FCCSC
NAME=WEB
SERVICE=PROD
FCCSC_TRACEON=0
BROKER_TRACELVL=0
SECURITYLOG=fccsc_security.log
TRACEDIR=d:\\program files\\allaire\\jrun\\logs
TRACEFILE=fccsc.log
ERR_SMTP_HOST=mail.pbcc.edu
ERR_PORT=25
ERR_TO_ADDRESS=ITInteractive@pbcc.edu
ERR_FROM_ADDRESS=cwebreg2@pbcc.edu
WHOPTIONS=N
BASE_DIRECTORY=/FCCSC
DOC_ROOT=D:\\Program Files\\Allaire\\JRUN\\servers\\default\\FCCSC\\
DATA_DIRECTORY=\\\\cwebreg3.pbcc.edu\\jrundata\\
EMAIL_SUFFIX=@fccsc.org
EMAIL_CC1=help@fccsc.org
SITE_FROM_ADDRESS=help@fccsc.org
SITE_TO_ADDRESS1=hrperson@yourschools
```

On the second (or more) Web Server, the DATA_DIRECTORY file must point to the Data Directory as defined on the first Web Server. It is essential that Read Access is available to this directory from the second Web Server.

Please pay very close attention to the syntax for this value.

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If this field is not defined correctly and the second Web Server cannot access this file, the loading from the mainframe will be executed continuously (with disastrous results)

display

```
DATEFORMAT=MM/dd/yy
TIMEFORMAT=h:mm a
LONGCCN=Course ID
SHORTCCN=Course ID
TIMESEARCH=Y
WRAPEMAIL=@FCCSC.
WRAPHTMLNEWWINDOW=Y
INSTRUCTORSEARCH=Y
TITLESEARCH=Y
SEARCH_SUBJECT_AREA=N
SEARCH_COURSE_PREFIX=Y
SEARCH_POSITION=BELOW
REGO_SEARCH=NEW
```

The Search Options defined in the display.properties file will disable or enable certain search criteria.

Change Request#: **16370**

Inter-Active Delivery System Impact:

Improved display of room number in coursesearch.jsp, modifyschedule.jsp, and viewschedule.jsp. The 6 character of the room number can now be enabled/disabled. This position has largely been unused. It will default to non-display. It can be enabled by making sure the property "LASTPOSITION" in the file "display.properties" is set to "true".

Contents of display.properties (as set in release version):

```
DATEFORMAT=MM/dd/yy
TIMEFORMAT=h:mm a
LONGCCN=Course ID
SHORTCCN=Course ID
LASTPOSITION=false
```

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

Change Request#: **16495**

Inter-Active Delivery System Impact:

Webservices preparation: Note: this release requires Java(TM) 2 SDK, Standard Edition 1.4.1
The new Webservices web application must be registered within the GUI admin interface of JRun 3.1. This should be done first. Unzip the fccscj71.zip archive, It will contain 2 folders, FCCSC and Webservices. Stop the JRun default server in order to copy the entire Webservices folder into the default directory folder and replace the one created by JRun. Install the FCCSC directory folder into the Jrun default folder as well. On Windows the default directories would be arranged:

```
c:\Program files\allaire\jrun\servers\default\  
  \FCCSC  
  \Webservices
```

under Unix it would be:

```
/opt/JRun/servers/default  
  /FCCSC  
  /Webservices
```

Follow the rest of the notes below to configure then restart JRun.

Webservices: The property file FCCSC/WEB-INF/classes/Webservice.properties was changed to reflect that ability to run the webservice module on the same JavaServer as FCCSC. It may be necessary to change the port/Hostname to meet local requirements.

The sections containing: <http://localhost:8100/Webservices/soapinxml>, etc may need to have the port, hostname changed to reflect the settings of your JavaServer. The hostname would most likely be the same one as the machine which runs the regular FCCSC web app.(it is possible however, to run the webservices server application on another machine, if desired).

```
# Webservice ResourceBundle properties file  
# This will need editing before usage  
  
IAS300N1s.URL=http://localhost:8100/Webservices/soapinxml  
IAS301N1s.URL=http://localhost:8100/Webservices/soapinxml  
IAS302N1s.URL=http://localhost:8100/Webservices/soapinxml  
  
# local home for class roster  
rosterHome=/personnel/faculty
```

xml-init.xml: This file Webservices/xml-init.xml **MUST** be customized for the local environment, using a text editor. The 3rd line has the Broker listening port, which must be changed as follows:

Change "ETB205:9999" to reflect the correct settings for your environment. Please note, the quotation marks are necessary. No other change is required.

```
<?xml version="1.0" encoding="iso-8859-1"?>  
  
<EntireXXMLInitVersion="6.2.1"mlns="http://namespaces.softwareag.com/en  
irex/xml/rt">  
  <adapters exx-brokerID="ETB205:9999" exx-service="RPC/SRV1/CALLNAT">
```

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```
<exx-xml-adapter>FccscwebXmlAdapter</exx-xml-adapter>
</adapters>
</EntireXXMLInit>
```

web.xml: This file Webservices/WEB-INF/web.xml **MUST** be customized for the local environment, using a text editor. The only section which must be changed is the part delimited by <param-value></param-value>., which describes where to find the xml-init.xml file. You will need to change the path to the xml-init.xml file. For Windows use the URL style shown below, with 3 slashes to begin the location and forward slashes to replace the windows backslashes. For example:

```
///c:/program files/allaire/jrun/servers/default/Webservices/xml-init.xml
```

```
<init-param>
<param-name>exx-xml-init</param-name>
<param-value>file:///c:/program
files/allaire/jrun/servers/default/Webservices/xml-init.xml
</param-value>
</init-param>
```

For Unix machines, simply use the regular forward slashes that characterize the unix file system. For example: /opt/JRun/servers/default/Webservices/xml-init.xml

Change Request#: **16526**

Inter-Active Delivery System Impact:

Release Notes for Implementers of Web Grading

Overview

These notes describe this version of Web grading for Integrow. Web grading is being presented as a SOAP based Webservice. It consists of two datasets; the mostly EntireX generated server portion (referred to as "Webservices" dataset) and the Web service client portion, consisting of a series of XSLT pages, Java servlets, Java server pages, Cascading Style Sheets and some JavaScript input coding (referred to as the "FCCSC" dataset).

Web Grading extends and replaces the class roster and it's functions. Several of the web classes and natural objects were reused and extended for use in web grading. Therefore, the discreet function of the class roster as a standalone function will no longer be available once the new web grading datasets are installed. The entire functionality of the roster is simply integrated into web grading.

This version of Web Grading is designed to provide web grading facilities for **faculty only**. It does **not** yet support grading by department heads or registrars.

This release consists of two datasets in the form of zip archives.;

- a. Webservices.zip
- b. FCCSC.zip

Part I Web services

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The following is a diagram of the directory structure of the supplied Web services dataset (Webservices.zip). I am replacing all the .class files, and the following files. Please note that for convenience, I have also included the entirex.jar and xerces.jar files. If some internal requirements require a different version of entirex.jar, you may substitute that file. The version of xerces.jar has not changed since the initial release.

```
|   xml-init.xml
|
|---WEB-INF
|   web.xml
|
|---classes
|   Ias300n1XmlAdapter.class
|   Ias301n1XmlAdapter.class
|   Ias302n1XmlAdapter.class
|   Ias303n1XmlAdapter.class
|   Ias304n1XmlAdapter.class
|   Ias305n1XmlAdapter.class
|
|---jsp
|---lib
|   entirex.jar
|   xerces.jar
|---sessions
```

In the Web services dataset:

Edit this line: (within xml-init.xml) to point your BrokerID:Port number

```
<adapters exx-brokerID="host.domain.edu:1234" exx-service="RPC/SRV1/CALLNAT">
```

In this file: xml-init.xml

```
<?xml version="1.0" encoding="iso-8859-1"?>
<EntireXXMLInit Version="6.2.1" xmlns="http://namespaces.softwareag.com/entirex/xml/rt">
<adapters exx-brokerID="host.domain.edu:1234" exx-service="RPC/SRV1/CALLNAT">
<exx-xml-adapter>Ias300n1XmlAdapter</exx-xml-adapter>
<exx-xml-adapter>Ias301n1XmlAdapter</exx-xml-adapter>
<exx-xml-adapter>Ias302n1XmlAdapter</exx-xml-adapter>
<exx-xml-adapter>Ias303n1XmlAdapter</exx-xml-adapter>
<exx-xml-adapter>Ias304n1XmlAdapter</exx-xml-adapter>
<exx-xml-adapter>Ias305n1XmlAdapter</exx-xml-adapter>
</adapters>
</EntireXXMLInit>
```

The second xml configuration file (WEB-INF\web.xml), has not changed. However, this version is setup to work within any environment – without any references to specific directory names. I recommend that you use this version. No special customization is necessary.

Note: This version is the last one released as a dataset.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE web-app
```

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PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
"http://java.sun.com/dtd/web-app_2_3.dtd">

```
<web-app>
  <servlet>
    <servlet-name>EntireXMLServlet</servlet-name>
    <servlet-class>com.softwareag.entirex.xml.rt.XMLServlet</servlet-class>
    <init-param>
      <param-name>exx-xml-init</param-name>
      <param-value>/xml-init.xml</param-value>
    </init-param>
  </servlet>
  <servlet-mapping>
    <servlet-name>EntireXMLServlet</servlet-name>
    <url-pattern>/soapinxml</url-pattern>
  </servlet-mapping>
  <session-config>
    <session-timeout>15</session-timeout>
  </session-config>
</web-app>
```

Part II FCCSC dataset

The following is a diagram of the directory structure of the supplied FCCSC dataset for Web grading.

Contents of FCCSC.zip (Web Grading)

```
+---personnel
|
|   +---faculty
|   |
|   |   ias300n1.jsp
|   |   ias300n1p.jsp
|   |   ias301n1.jsp
|   |   ias301n1p.jsp
|   |   ias302n1.jsp
|   |   ias303n1.jsp
|   |   ias303n1p.jsp
|   |   ias304n1.jsp
|   |   ias305n1.jsp
|   |
|   |   +---soapinxml
|   |   |
|   |   |   ias300n1In.xml
|   |   |   ias301n1In.xml
|   |   |   ias302n1In.xml
|   |   |   ias303n1In.xml
|   |   |   ias304n1In.xml
|   |   |   ias305n1In.xml
|   |   |
|   |   |   \---stylesheets
|   |   |   |
|   |   |   |   ce_ias300n1.xsl
|   |   |   |   ce_ias301n1.xsl
|   |   |   |   ce_ias302n1.xsl
|   |   |   |   pc_ias300n1.xsl
|   |   |   |   pc_ias301n1.xsl
|   |   |   |   pc_ias302n1.xsl
|   |   |   |   pc_ias303n1.xsl
|   |   |   |   pc_ias304n1.xsl
```

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```
pc_ias305n1.xsl
print.css
stylesWS.css
\---include
    facultyinfo.inc
+---src
    \---personnel
        \---faculty
            IAS300N1b.java
            IAS300N1s.java
            IAS301N1s.java
            IAS302N1s.java
            IAS303N1s.java
            IAS304N1s.java
            IAS305N1s.java
\---WEB-INF
    \---classes
        webservice.properties
    \---personnel
        \---faculty
            IAS300N1b.class
            IAS300N1s.class
            IAS301N1s.class
            IAS302N1s.class
            IAS303N1s.class
            IAS304N1s.class
            IAS305N1s.class
```

/WEB-INF/classes/webservice.properties

This property file requires updating. The highlighted section(s) must be edited to point to the name and portnumber of your javaserver

```
# Web service ResourceBundle properties file
# This will need editing before usage

ias300n1.url=http://host.domain.edu:8100/Webservices/soapinxml
ias301n1.url=http://host.domain.edu:8100/Webservices/soapinxml
ias302n1.url=http://host.domain.edu:8100/Webservices/soapinxml
ias303n1.url=http://host.domain.edu:8100/Webservices/soapinxml
ias304n1.url=http://host.domain.edu:8100/Webservices/soapinxml
ias305n1.url=http://host.domain.edu:8100/Webservices/soapinxml

# local home for class roster
rosterHome=/personnel/faculty
```

Of special interest is the **<session-timeout>** parameter. This value controls the expiration of the session variables, particularly the user ID, which is accessed for security control. The value assigned by your institution may be different, please review your current setting. In any case, you should make the **<session-timeout>** in **both** (FCCSC and Webservices) web.xml files the same

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value. **Note:** The FCCSC version of this file is NOT included in the zip archive. I've included it here for reference only.

```
<?xml version="1.0" encoding="ISO-8859-1"?>

<!DOCTYPE web-app
  PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
  "http://java.sun.com/dtd/web-app_2_3.dtd">
<web-app>
<session-config>
  <session-timeout>15</session-timeout>
</session-config>
<welcome-file-list>
  <welcome-file>index.jsp</welcome-file>
  <welcome-file>index.html</welcome-file>
</welcome-file-list>
</web-app>
```

This discussion of the session timeout, raises an **important** point for the users of web grading. **Users should be cautioned not to start entering grades and leave the web page idle for a period of time longer than the timeout value. This would result in the loss of the current input.** This is really not a major problem, since in the worse case, 50 student grades would be affected. However, with proper training and end user documentation, this can be eliminated as an issue.

Additional site-specific Property file

Web Grading supports the WHOPTIONS flag in "FCCSC/WEB-INF/classes/broker.properties". That is, setting the flag to 'Y' will cause the input page "ias303n1.jsp" – the input screen of web grading to display an additional heading, "options" and a dropdown box for each student with options for "writing, honors, both". The use of the feature should be transparent – web grading reads the existing property file "broker.properties". Therefore, institutions already using this feature in add/drop (modifyschedule.jsp) will automatically be set to use it within web grading.

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

Change Request#: **16534**

Inter-Active Delivery System Impact:

AR-FLPREPAID-MATRICULATION: This new file will contain all students who are on the ST-STDNT file for the specific college. The Florida Prepaid Board updates their matriculation file every Tuesday.

FLPRE: A new Broker Server Command was added. Please review Table Changes for more information.

FLPTA: A new Broker Server Command was added. Please review Table Changes for more information.

OBLIGATION TYPE FP: A new obligation type was added to prevent students from using Florida Prepaid if payment has been denied. See note under table changes if you would prefer to use a different type.

MATRICULAT TABLE: There must be at least a basic customer contract set up for each of the terms added to this table. The local contract is optional.

POSTLOGON.PROPERTIES

Edit the prepaidPage entry:

prepaidPage=/creditcard/flprepaidintro.jsp

```
# Post logon properties file
#
policyPage=/student/policy.jsp
prepaidPage=/creditcard/flprepaidintro.jsp
t1098Page=/student/plinf.jsp
personalInfoPage=/student/plinf.jsp
textPage=/student/plinf.jsp
```

Change Request#: **16627**

Inter-Active Delivery System Impact:

This plug corrects typos in the error messages which are reported to students via the web. These typos would have prevented the messages from being displayed.

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

Change Request#: **16784**

Inter-Active Delivery System Impact:

Modified errmsg.properties file; added the following;
1173= Student Visa to Expire before Class End Date

Change Request#: **16857**

Inter-Active Delivery System Impact:

Modified errmsg.properties file; added the following;
1172=Student has unresolved Incomplete grade for this course group

Change Request#: **16995**

Inter-Active Delivery System Impact:

This log contains a Frequently Asked Questions file which may need to be modified. The file faq2003.jsp, contains helpful information for the income tax filer and has been updated for 2003. However, it should be reviewed for conformity to local school requirements. A new screen will be displayed if no T1098 was issued by the school, with a customizable explanation message.

Note: This plog makes use of a new logging library. This library and it's associated files are documented in IRN 17234. A zip archive is referenced (plog17234.zip) in the IRN.

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

Change Request#: **17015**

Inter-Active Delivery System Impact:

This data set must be compiled after it is unzipped into the FCCSC home directory.

This provides access to the additional lowlevel debugging information that is part of the the Web authorize API. To turn this feature on, set the existing "DEBUG" property in creditcard.properties to "true" or "TRUE" -- all other values will default to "false" to prevent accidental output. The output of the data is sent to STDERR – This is set to default-err.log when using the JRUN Server engine. Other Java Server containers/engines will likely have a differently named file to pass the output of STDERR. Consult the documentation of the Java server for details.

Please note: This debugging output contains sensitive credit card information. Ie. Creditcard numbers, amounts, etc. Use with caution in a production environment.!!

Below is an example of the expected output :

```
12:11:04:256 Send Msg: TelaIT002011 TYPE=NA PANN=400555000000019
EXPD=0404 AMNT=$7.00 AVSZ=33324 INVN=030814121104
CUST=000000003 MRCH=1234-
12:11:04:256 AuthJAPI.SendSocket TelaIT00201
12:11:04:256 OpenSocket - Name: facts.fccsc.org/10.120.2.198 port: 54321
12:11:04:266 AuthJAPI reading input stream
12:11:08:953 AuthJAPI read completed
12:11:08:953 AuthJAPI.SendSocket completed
12:11:08:953
Recv Msg: TelaRT002011 TSTS=AA PANN=400555000000019 TRCK=
AMNT=7.00 SEQN=2799 TYPE=NA INDS=2EXPD=0404 ISSR=Visa
AUTH=Demo65RSPT=Approved REFN=DUMMY1234678 DATE=0814
TIME=120631 BCHN=9 ITMN=65 AVSC=Y VOID=0CTYP=CC
STAT= AVSA= AVSZ=33324 INVN=030814121104 CUST=000000003 INIT=
DEPT= TAXA=0.00 TIPA=0.00 DES1= AMT1=7.00 DES2= AMT2=0.00
DES3= AMT3=0.00 DES4= AMT4=0.00 CKNM=0 PDUP=0
FDUP=0 OTYP=0 MTIM=1060877191 CVV2= CVVR=
PSRV=00000814120631
```

Change Request#: **17036**

Inter-Active Delivery System Impact:

Additional post logon functions will be available. New properties file "postlogn.properties" added for configuration convenience.

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

Change Request#: **17068**

Inter-Active Delivery System Impact:

NOTE: Prior to unzipping the archive files (reference above) you may want to either copy or print the current versions of the following customized files for reference of current settings.

NOTE: The zip archive for this release contains 2 zip files: FCCSC.zip and Webservices.zip. Each of these should be unzipped within their respective default directories.

It will be **necessary to compile FCCSC**. It is NOT necessary (or possible) to compile the Webservice modules.

CUSTOMIZE: This release will supply a new copy of Webservices/ xml-init.xml , this will need to be customized to point to your institutions broker parameters.

le. <adapters exx-brokerID="**www.fccsc.org:1234**" exx-service="RPC/SRV1/CALLNAT">"

Webservices/ xml-init.xml

```
<?xml version="1.0" encoding="iso-8859-1"?>
<EntireXXMLInit Version="6.2.1" xmlns="http://namespaces.softwareag.com/entirex/xml/rt">
<adapters exx-brokerID="www.fccsc.org: 1234" exx-service="RPC/SRV1/CALLNAT">
  <exx-xml-adapter>las300n1XmlAdapter</exx-xml-adapter>
  <exx-xml-adapter>las301n1XmlAdapter</exx-xml-adapter>
  <exx-xml-adapter>las302n1XmlAdapter</exx-xml-adapter>
  <exx-xml-adapter>las303n1XmlAdapter</exx-xml-adapter>
  <exx-xml-adapter>las304n1XmlAdapter</exx-xml-adapter>
  <exx-xml-adapter>las305n1XmlAdapter</exx-xml-adapter>
</adapters>
</EntireXXMLInit>
```

CUSTOMIZE

A new modified copy of the FCCSC propertyfile webservice.property will need some modification:

Please use the appropriate **hostname:port** for the location of your Webservice application: The last line in the file is also new, you may wish to customize it for your location.

```
# Webservice ResourceBundle properties file
# This will need editing before usage
```

```
ias300n1.url=http://www.yourhost.edu:8100/Webservices/soapinxml
ias301n1.url=http://www.yourhost.edu:8100/Webservices/soapinxml
ias302n1.url=http://www.yourhost.edu:8100/Webservices/soapinxml
ias303n1.url=http://www.yourhost.edu:8100/Webservices/soapinxml
ias304n1.url=http://www.yourhost.edu:8100/Webservices/soapinxml
ias305n1.url=http://www.yourhost.edu:8100/Webservices/soapinxml
```

```
# local home for class roster
rosterHome=/personnel/faculty
errorMessage=An error has occurred -- it has been reported to technical support
```

Integrow Version 2004.1 INTER-ACTIVE DELIVERY SYSTEM IMPACT

This release incorporates a new logging facility called "log4j". This open source project is widely used, because of its speed, robustness and great flexibility. Complete documentation is available at: <http://jakarta.apache.org/log4j/docs/index>. A new property, "log4j.properties" to control log4j. output. I have setup a configuration file to log exceptions to a log file and email them to a selectable address. The log is set to rotate to a new log on a daily basis. This can easily be changed to weekly, monthly or even more frequently. See the documentation on the DailyRolling Appender at: <http://jakarta.apache.org/log4j/docs/api/index.html>. Other configuration options allow for log file rollovers based on file size. It is also possible to send the log to an sql database where the database can be easily searched and reported. All of this flexibility is based on Runtime settings – not on changes to coding within the application.

| | | |
|----------------|-------|------------------------|
| IAS300N1s.java | 17068 | /src/personel/faculty/ |
| IAS301N1s.java | 17068 | /src/personel/faculty/ |
| IAS302N1s.java | 17068 | /src/personel/faculty/ |
| IAS303N1s.java | 17068 | /src/personel/faculty/ |
| IAS304N1s.java | 17068 | /src/personel/faculty/ |
| IAS305N1s.java | 17068 | /src/personel/faculty/ |

The java servlet classes above, have logging enabled for level debug on the send and receive of data (soapmessage). This data will currently not be logged unless the configuration file (log4j.properties) is set to DEBUG. There are also logging statements enabled for exception handling: These are logged to log.error and will be emailed and logged to a file; with the current setting of ERROR.

In the case of such exceptions, the web user will have a simple error message displayed, "An error has occurred -- it has been reported to technical support". This is a new entry in the property file (webservice.property) and can be modified if desired.

CUSTOMIZE:

The following log4j.properties file must be customized for your institution:

Please NOTE: the following 4 bolded lines MUST be changed.

```
#
# This defines the logging level for the rootLogger. It is not required
# if you are going to keep the level at debug as the rootLogger by default
# is at the debug level. The value after the comma is the appender for the
# root and we have given it the name R
#
# - R rootdefault
# - EN Email Notification
log4j.rootLogger=ERROR, R, EN

#
# Appender - Daily Rolling File
#
log4j.appender.R=org.apache.log4j.DailyRollingFileAppender
log4j.additivity=false
log4j.appender.R.DatePattern='yyyy-MM-dd
log4j.appender.R.File=FCCSC/logs/FCCSC-log4j.log # location of your logfile
log4j.appender.R.Append=true
log4j.appender.R.layout=org.apache.log4j.PatternLayout
log4j.appender.R.layout.ConversionPattern=%d %X{logonID} %-5p %c -%m%n
```

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```
#
# Appender - SMTP
#

log4j.appender.EN.Threshold=ERROR
log4j.appender.EN=org.apache.log4j.net.SMTPAppender
log4j.appender.EN.To=webmaster@fccsc.org      # who should be notified ?
log4j.appender.EN.From=java@fccsc.org        # who is sending this email ?
log4j.appender.EN.Subject=FCCSC Webapp Notification
log4j.appender.EN.SMTPHost=www.fccsc.org      # your smtp host to process mail
log4j.appender.EN.BufferSize=5
log4j.appender.EN.layout=org.apache.log4j.PatternLayout
log4j.appender.EN.layout.ConversionPattern=%d %X{logonID} %-5p %c -%m%n
```

CUSTOMIZE:

The FCCSC web.xml has also been modified, and requires possibly one modification:
The line: **<param-value>FCCSC/WEB-INF/classes/log4j.properties</param-value>**

Refers to the location of the properties file "log4j.properties" . If your application does not use the name FCCSC as the application directory name, then you must change that value to point to your application "home". Note that only the partial path is required, that is the path information below the application (not the full absolute path). In many cases it will not be necessary to change anything, if you use the default name of FCCSC as the directory.

FCCSC web.xml

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE web-app
  PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
  "http://java.sun.com/dtd/web-app_2_3.dtd">
<web-app>
<servlet>
  <servlet-name>setup</servlet-name>
  <servlet-class>utilities.SetupServlet</servlet-class>
  <init-param>
    <param-name>props</param-name>
    <param-value>FCCSC/WEB-INF/classes/log4j.properties</param-value> ## modify ?
  </init-param>
  <load-on-startup/>
</servlet>
<session-config>
  <session-timeout>15</session-timeout>
</session-config>
<welcome-file-list>
  <welcome-file>index.jsp</welcome-file>
  <welcome-file>index.html</welcome-file>
</welcome-file-list>
</web-app>
```

CSS styles update.

Three (3) new button styles have been added to the grading application:

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```
input.sub { background-color: #cc0000; font-weight: bold; font-size: 14px; color: white;
}
input.roster { background-color: #000000; font-weight: bold; font-size: 14px; color: white;
}
input.grade { background-color: #339966; font-weight: bold; font-size: 14px; color: white;
}
```

These control the appearance of the grade submit button, Roster button, and grading button respectively.

Printable Pages:

Support for special "printable pages" is provided with this release. Additional "printing" files work together to allow printed output to be different from the normal webscreen view.

A parameter is passed to the currently supported 3 pages: "output=print" which in turn selects the "p" versions of the normal files. The xslt style sheets have been edited to provide clearer printed output. Buttons, web links, and extra graphics have been removed from this output. Any additional adjustments to printed output should be done through the following files:

| | | |
|------------------|-------|------------------------|
| pc_ias300n1p.xsl | 17068 | /personnel/stylesheets |
| pc_ias301n1p.xsl | 17068 | /personnel/stylesheets |
| pc_ias303n1p.xsl | 17068 | /personnel/stylesheets |
| print.css | 17068 | /personnel/stylesheets |
| ias300n1p.jsp | 17068 | /personnel/faculty |
| ias301n1p.jsp | 17068 | /personnel/faculty |
| ias303n1p.jsp | 17068 | /personnel/faculty |

The xsl files control which data elements are present and their location on the page. The cascading style sheet "print.css" controls the actual appearance, ie. fonts, and other stylistic features. The jsp pages have been stripped of graphics and most menu items.

Change Request#: **17084**

Inter-Active Delivery System Impact:

FACTS 2+2 Advising: This has been changed due to the file changes within this problem log. This should be transparent to the user.

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

Change Request#: **17098**

Inter-Active Delivery System Impact:

The Web Server Command STDPS was modified to include the Test Program. Please review the table change section for more information.

Notes on program logic:

Some changes were necessary to make in face of the new mainframe based polycypage and related services (which store persistant student preference). The mainframe based policy page is stored on a term record which is not available to the Prospect. Therefore, the entry point to the prospect menu bypasses the normal login and uses a special one which does not require the policy. This access is restricted to the Prospect menu ONLY. This is accomplished by removing the StudentSecurity session and only maintaining the Student ID as a session. A special "Prospect only" menu is displayed based on the absence of the StudentSecurity object. Once the prospect becomes a real student, the standard student menu will be displayed rather than the restrictive "Prospect menu".

Included new log4j logging library with this log. This was introduced in web grading. I have included the jar file, property file and web.xml modifications again to make sure that they are available and repeated the associated notes as well:

NOTE: This information is **not necessary** if you have implemented log4j already by installing the new web grading modules.

This release incorporates a new logging facility called "log4j". This open source project is widely used, because of it's speed, robustness and great flexibility. Complete documentation is available at: <http://jakarta.apache.org/log4j/docs/index>. A new property, "log4j.properties" to control log4j. output. I have setup a configuration file to log exceptions to a log file and email them to a selectable address. The log is set to rotate to a new log on a daily basis. This can easily be changed to weekly, monthly or even more frequently. See the documentation on the DailyRolling Appender at: <http://jakarta.apache.org/log4j/docs/api/index.html>. Other configuration options allow for log file rollovers based on file size. It is also possible to send the log to an sql database where the database can be easily searched and reported. All of this flexibility is based on Runtime settings – not on changes to coding within the application.

prospects.IAS065N1s.java
prospects.IAS065N2s.java

The java servlet classes above, have logging enabled for level debug on the send and receive of data. This data will currently not be logged unless the configuration file (log4j.properties) is set to DEBUG. There are also logging statements enabled for exception handling: These are logged to log.error and will be emailed and logged to a file; with the current setting of ERROR.

In the case of such exceptions, the web user will have a simple error message displayed, "An error has occurred -- it has been reported to technical support

CUSTOMIZE:

The following log4j.properties file must be customized for your institution:

Please NOTE: the following 4 bolded lines MUST be changed.

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```
#
# This defines the logging level for the rootLogger. It is not required
# if you are going to keep the level at debug as the rootLogger by default
# is at the debug level. The value after the comma is the appender for the
# root and we have given it the name R
#
# - R rootdefault
# - EN Email Notification
log4j.rootLogger=ERROR, R, EN

#
# Appender - Daily Rolling File
#
log4j.appender.R=org.apache.log4j.DailyRollingFileAppender
log4j.additivity=false
log4j.appender.R.DatePattern='.yyyy-MM-dd
log4j.appender.R.File=FCCSC/logs/FCCSC-log4j.log # location of your logfile
log4j.appender.R.Append=true
log4j.appender.R.layout=org.apache.log4j.PatternLayout
log4j.appender.R.layout.ConversionPattern=%d %X{logonID} %-5p %c -%m%n

#
# Appender - SMTP
#

log4j.appender.EN.Threshold=ERROR
log4j.appender.EN=org.apache.log4j.net.SMTPAppender
log4j.appender.EN.To=webmaster@fccsc.org # who should be notified ?
log4j.appender.EN.From=java@fccsc.org # who is sending this email ?
log4j.appender.EN.Subject=FCCSC Webapp Notification
log4j.appender.EN.SMTPHost=www.fccsc.org # your smtp host to process mail
log4j.appender.EN.BufferSize=5
log4j.appender.EN.layout=org.apache.log4j.PatternLayout
log4j.appender.EN.layout.ConversionPattern=%d %X{logonID} %-5p %c -%m%n
```

CUSTOMIZE:

The FCCSC web.xml has also been modified, and requires possibly one modification:
The line: **<param-value>FCCSC/WEB-INF/classes/log4j.properties</param-value>**

Refers to the location of the properties file "log4j.properties" . If your application does not use the name FCCSC as the application directory name, then you must change that value to point to your application "home". Note that only the partial path is required, that is the path information below the application (not the full absolute path). In many cases it will not be necessary to change anything, if you use the default name of FCCSC as the directory.

FCCSC web.xml

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE web-app
  PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
  "http://java.sun.com/dtd/web-app_2_3.dtd">
<web-app>
```

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```
<servlet>
  <servlet-name>setup</servlet-name>
  <servlet-class>utilities.SetupServlet</servlet-class>
  <init-param>
    <param-name>props</param-name>
    <param-value>FCCSC/WEB-INF/classes/log4j.properties</param-value> ## modify ?
  </init-param>
  <load-on-startup/>
</servlet>
<session-config>
  <session-timeout>15</session-timeout>
</session-config>
<welcome-file-list>
  <welcome-file>index.jsp</welcome-file>
  <welcome-file>index.html</welcome-file>
</welcome-file-list>
</web-app>
```

Change Request#: 17186

Inter-Active Delivery System Impact:

Registration/viewschedule.jsp will display the correct format for StudentID – either masked or dashed xxx-xxx-xxx SSN stye, depending on which StudentID type is used; SSN or true studentID.

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

Change Request#: **17200**

Inter-Active Delivery System Impact:

Email Utility

This module is composed of several components:

A servlet and a bean : "email.IAU070N1s", a bean; "email. IAU070N1b",.

Together they send requests to the Webservice module " IAU070n1XmlAdapter.

The adapter calls the mainframe and requests any waiting email, in the form of XML messages.

The messages are parsed, and processed by "email.PostMail", where they are mailed via JavaMail.

The servlet is activated by a periodic java class "standalone.BulkEmailTask". This is a standalone java application. It can be installed on the Servlet server or on any server of your choice. It is configured by "bulkemailltask.properties"

Configuration

BulkEmailTask Properties

period=30

delay=0

servlet=http://localhost:8100/FCCSC/servlet/email.IAU070N1s

log4j=log4j.properties

The properties are as follows:

Period = how long between calls to the servlet, (in minutes) here it is set to every 30 minutes.

Delay = You can set a delay, to wait before starting the first time, It is set to 0.

Servlet= The URL for the actual bulkemail servlet (emai.IAU070N1s), that it calls.

It should be expressed a a full absolute URL:

<http://localhost:8100/FCCSC/servlet/email.IAU070N1s>

log4j=The name for the log4j properties file configuration file. Since this is a standalone application, this would be a separate file from the FCCSC log4j.properties file.

The following describes the log4j properties configuration, This will control where system error messages are emailed to and how to handle messages of DEBUG level.

You will need to edit all the entries below in the **Appender – SMTP** group which are **BOLDED**

These properties determine where the errors would be mailed to:

log4j.appender.EN.To=**webmaster@school.edu**

log4j.appender.EN.From=**java@fschool.edu**

log4j.appender.EN.SMTPHost=**mailserver.school.edu**

Log4J.properties

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```
# This defines the logging level for the rootLogger. It is not required
# if you are going to keep the level at debug as the rootLogger by default
# is at the debug level. The value after the comma is the appender for the
# root and we have given it the name R
#
# - R rootdefault
# - EN Email Notification
log4j.rootLogger=DEBUG, R, EN

#
# Appender - Daily Rolling File
#
log4j.appender.R=org.apache.log4j.DailyRollingFileAppender
log4j.additivity=false
log4j.appender.R.DatePattern='.yyyy-MM-dd
log4j.appender.R.File=bulk-log4j.log
log4j.appender.R.Append=true
log4j.appender.R.layout=org.apache.log4j.PatternLayout
log4j.appender.R.layout.ConversionPattern=%d %X{logonID} %-5p %c -%m%n

#
# Appender - SMTP
#

log4j.appender.EN.Threshold=ERROR
log4j.appender.EN=org.apache.log4j.net.SMTPAppender
log4j.appender.EN.To=webmaster@school.edu
log4j.appender.EN.From=java@fschool.edu
log4j.appender.EN.Subject= FCCSC Bulkmail Error Notification
log4j.appender.EN.SMTPHost=mailserver.school.edu
log4j.appender.EN.BufferSize=5
log4j.appender.EN.layout=org.apache.log4j.PatternLayout
log4j.appender.EN.layout.ConversionPattern=%d %X{logonID} %-5p %c -%m%n
```

The Webservice.properties file must have a new entry added to it:

iau070n1.url=http://localhost:8100/Webservices/soapinxml. This will point to the server which hosts the webservice classes and adapters. See below.

Webservice.properties

```
# Webservice ResourceBundle properties file
# This will need editing before useage
```

```
ias300n1.url=http://www.fccsc.org:8100/Webservices/soapinxml
ias301n1.url=http://www.fccsc.org:8100/Webservices/soapinxml
ias302n1.url=http://www.fccsc.org:8100/Webservices/soapinxml
ias303n1.url=http://www.fccsc.org:8100/Webservices/soapinxml
ias304n1.url=http://www.fccsc.org:8100/Webservices/soapinxml
ias305n1.url=http://www.fccsc.org:8100/Webservices/soapinxml
iau070n1.url=http://localhost:8100/Webservices/soapinxml
```

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```
# local home for class roster
rosterHome=/personnel/faculty
```

```
# resource directory for email
emailHome=/email
```

```
errorMessage=An error has occurred -- it has been reported to technical support
```

NOTE:

A new properties file "bulkmail.properties" this is a different file from the one for the standalone, application "BulkEmailTask". This property file determines the name of the mail host to use for the purpose of relaying the email. You may want to set this up on a separate email domain from your institutional mail server. This might relieve load, and might be a way to prevent your institutional mail server from being tagged as a "spam" site, in case this email is erroneously identified as unsolicited email (SPAM).

bulkmail.properties

```
# bulkmail properties file
mailhost=mailserver.domain.edu
```

Webservices modifications:

The Webservice application server must have its xml-init.xml file edited with the addition of the following line:

```
<exx-xml-adapter>Iau070n1XmlAdapter</exx-xml-adapter>
```

xml-init.xml

```
<?xml version="1.0" encoding="iso-8859-1"?>
  <EntireXXMLInit Version="6.2.1"
  xmlns="http://namespaces.softwareag.com/entirex/xml/rt">
    <adapters exx-brokerID="www.fccsc.org:9999" exx-
service="RPC/SRV1/CALLNAT">
      <exx-xml-adapter>Ias300n1XmlAdapter</exx-xml-adapter>
      <exx-xml-adapter>Ias301n1XmlAdapter</exx-xml-adapter>
      <exx-xml-adapter>Ias302n1XmlAdapter</exx-xml-adapter>
      <exx-xml-adapter>Ias303n1XmlAdapter</exx-xml-adapter>
      <exx-xml-adapter>Ias304n1XmlAdapter</exx-xml-adapter>
      <exx-xml-adapter>Ias305n1XmlAdapter</exx-xml-adapter>
      <exx-xml-adapter>Iau070n1XmlAdapter</exx-xml-adapter>
    </adapters>
  </EntireXXMLInit>
```

It will be necessary to add the class file **Iau070n1XmlAdapter.class** to the WEB-INF/classes directory of Webservices as well.

The standalone application may be run in two ways: executing the bat program; Run_bulkEmailTask.bat , which will run in a dos/console window.

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Or as an NT service, by using the supplied Java Service wrapper "bulkEmailTask_createService.bat". This "bat" file will need editing for your particular environment, particularly the JAVA_HOME environment variable, and the directory location. There is a corresponding "_removeService.bat" as well to remove the service if desired.

Change Request#: **17233**

Inter-Active Delivery System Impact:

FACTS Admissions: A new edit will be added by FCAAS to the front-end validation of FACTS Admissions to ensure that an entered student email address has exactly one "@" sign and contains at least one period after the "@" sign. A new edit on the pass-through will ensure that the email address is in valid format/syntax before updating the mainframe.

Change Request#: **17234**

Inter-Active Delivery System Impact:

A new "Open Source" logging library "Log4J" is now the standard logging mechanism for the web system.

NOTE: This plog and its configuration is **not necessary** if you have implemented log4j already by installing the new web grading modules. Plog 17068:

This release incorporates a new logging facility called "log4j". This open source project is widely used, because of its speed, robustness and great flexibility. Complete documentation is available at: <http://jakarta.apache.org/log4j/docs/index>. A new property, "log4j.properties" to control log4j output. I have setup a configuration file to log exceptions to a log file and email them to a selectable address. The log is set to rotate to a new log on a daily basis. This can easily be changed to weekly, monthly or even more frequently. See the documentation on the DailyRolling Appender at: <http://jakarta.apache.org/log4j/docs/api/index.html>. Other configuration options allow for log file rollovers based on file size. It is also possible to send the log to an sql database where the database can be easily searched and reported. All of this flexibility is based on Runtime settings – not on changes to coding within the application.

Java servlet classes will have logging enabled for level debug on the send and receive of data. This data will currently not be logged unless the configuration file (log4j.properties) is set to DEBUG. There are also logging statements enabled for exception handling: These are logged to log.error and will be emailed and logged to a file; with the current setting of ERROR.

In the case of such exceptions, the web user will have a simple error message displayed, "An error has occurred -- it has been reported to technical support

CUSTOMIZE:

The following log4j.properties file must be customized for your institution:

Please NOTE: the following 4 bolded lines MUST be changed.

```
#  
# This defines the logging level for the rootLogger. It is not required  
# if you are going to keep the level at debug as the rootLogger by default
```

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```
# is at the debug level. The value after the comma is the appender for the
# root and we have given it the name R
#
# - R rootdefault
# - EN Email Notification
log4j.rootLogger=ERROR, R, EN

#
# Appender - Daily Rolling File
#
log4j.appender.R=org.apache.log4j.DailyRollingFileAppender
log4j.additivity=false
log4j.appender.R.DatePattern='yyyy-MM-dd
log4j.appender.R.File= FCCSC/logs/FCCSC-log4j.log # location of your logfile
log4j.appender.R.Append=true
log4j.appender.R.layout=org.apache.log4j.PatternLayout
log4j.appender.R.layout.ConversionPattern=%d %X{logonID} %-5p %c -%m%n

#
# Appender - SMTP
#

log4j.appender.EN.Threshold=ERROR
log4j.appender.EN=org.apache.log4j.net.SMTPAppender
log4j.appender.EN.To=webmaster@fccsc.org # who should be notified ?
log4j.appender.EN.From=java@fccsc.org # who is sending this email ?
log4j.appender.EN.Subject=FCCSC Webapp Notification
log4j.appender.EN.SMTPHost=www.fccsc.org # your smtp host to process mail
log4j.appender.EN.BufferSize=5
log4j.appender.EN.layout=org.apache.log4j.PatternLayout
log4j.appender.EN.layout.ConversionPattern=%d %X{logonID} %-5p %c -%m%n
```

CUSTOMIZE:

The FCCSC web.xml has also been modified, and requires possibly one modification:
The line: **<param-value>FCCSC/WEB-INF/classes/log4j.properties</param-value>**

Refers to the location of the properties file "log4j.properties" . If your application does not use the name FCCSC as the application directory name, then you must change that value to point to your application "home". Note that only the partial path is required, that is the path information below the application (not the full absolute path). In many cases it will not be necessary to change anything, if you use the default name of FCCSC as the directory.

FCCSC web.xml

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE web-app
  PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
  "http://java.sun.com/dtd/web-app_2_3.dtd">
<web-app>
<servlet>
  <servlet-name>setup</servlet-name>
  <servlet-class>utilities.SetupServlet</servlet-class>
  <init-param>
```

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```
<param-name>props</param-name>
  <param-value>FCCSC/WEB-INF/classes/log4j.properties</param-value> ## modify ?
</init-param>
<load-on-startup/>
</servlet>
<session-config>
  <session-timeout>15</session-timeout>
</session-config>
<welcome-file-list>
  <welcome-file>index.jsp</welcome-file>
  <welcome-file>index.html</welcome-file>
</welcome-file-list>
</web-app>
```

Change Request#: **17254**

Inter-Active Delivery System Impact:

New web error messages have been added:

1174=Your program of study requires one enforcement class in English

1175=Your program of study requires one enforcement class in Mathematics

1176=Your program of study requires one enforcement class in Reading

They have been added to the modified errmsg.properties file. (included in the zip file).

Change Request#: **17318**

Inter-Active Delivery System Impact:

New web error messages have been added:

1177=Course is not eligible as an elective for your AA degree

It has been added to the errmsg.properties file and included in the zip file.

Change Request#: **17332**

Inter-Active Delivery System Impact:

Broker Server Commands: A Number of new Broker Server Commands (AD*) were added. Please review the Table Change Section for more information.

This system **requires** an SQL database to host several tables. If this database is not present or inactive, the advising modules **will not work correctly**. Any necessary troubleshooting should begin with this as a starting point. This requirement of a working database, presumes the installation of a JDBC driver (in the form of a "jar" file) for your particular database. Without a driver, database access is impossible. This driver must be installed (copied to) the "lib" directory of the application. Assuming that your application is installed under FCCSC; the location would then be FCCSC/WEB-INF/lib/mydriverxxx.jar

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The choice of an SQL database is not dictated by the system; there are a number of SQL databases which can be used for this purpose; MySQL, MS SQL, Oracle. Each of these products has available JDBC database drivers. Some of these drivers are free, others must be purchased. The person responsible for database administration should make the decision of which particular database and JDBC Driver to use.

Set up access to database - The web application requires some configuration data in order to access the SQL data. This data must be configured in jdbcodbc.properties. The section that follows is an example of accessing a MySQL database server.

jdbcodbc.properties:

```
FCCSC_DRIVER=com.mysql.jdbc.Driver  
FCCSC_DATABASE=jdbc:mysql://localhost:3306/fccsc  
FCCSC_USER_ID=databaseUser  
FCCSC_PASSWORD=password  
FCCSC_DATASOURCE=
```

```
COLLEGE_DRIVER=com.mysql.jdbc.Driver  
COLLEGE_DATABASE=jdbc:mysql://localhost:3306/college  
COLLEGE_USER_ID= databaseUser  
COLLEGE_PASSWORD= password  
COLLEGE_DATASOURCE=
```

```
SITE_DRIVER=com.mysql.jdbc.Driver  
SITE_DATABASE=jdbc:mysql://localhost:3306/site  
SITE_USER_ID= databaseUser  
SITE_PASSWORD= password  
SITE_DATASOURCE=
```

```
PROPERTIES_LOCATION=MySql  
SERVER_NAME=myservername
```

Some notes on the relevant sections:

FCCSC_DRIVER = com.mysql.jdbc.Driver

The name of the Jdbc driver, this will vary according to which driver you choose.

FCCSC_DATABASE=jdbc:mysql://localhost:3306/fccsc

This naming scheme varies from database to database.

FCCSC_USER_ID=databaseUser

A user must be setup in the database, to control access to the database file

FCCSC_PASSWORD=password

The use must have a password

PROPERTIES_LOCATION=MySql

This line determines whether the property files use the database (Any Name in this field) or whether it uses the traditional flat file based property files. (PROPERTIES_LOCATION=FILE)

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MySQL specific setups

The open source database MySQL (www.mysql.com) may be convenient for development use – It is cross platform (Windows and unix/linux versions exist) and is free.

There is some variation in the methods for creating databases and tables. The following script was adapted from the autogenerate version for MS SQL. I have made changes to the some basic syntax and adjusted some datatypes which where not present in the 4.0 version of MySQL. (replacing the NVARCHARS with VARCHAR and NCHAR with CHAR).

First create the empty database,
this one must be called "fccsc".

This can done either via a command line or with a GUI manager called "MySQL Control Center" (also available at mysql.com)

Once the empty database(s) are setup, it will be necessary to create a user with rights and a password.

Please refer to the documentation available on the MySQL database, for this and other database specific questions.

MySQL scripts for generating empty database tables

```
drop table Footprint_F0120;
```

```
create table  
Footprint_F0120  
(  
  TableName VARCHAR(10) not null,  
  Code VARCHAR(10) not null,  
  Status CHAR(1) not null,  
  ISN DECIMAL(10) not null,  
  UpdtDateSeq CHAR(3) not null,  
  UpdtDate TIMESTAMP null,  
  UpdtTime DECIMAL(7) null,  
  UpdtUser VARCHAR(8) null,  
  UpdtAction CHAR(1) null  
);
```

```
alter table  
Footprint_F0120  
add constraint pk_Footprint_F0120 primary key  
(  
  TableName,  
  Code,  
  Status,  
  ISN,  
  UpdtDateSeq  
);
```

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```
drop table Generic_F0120;
```

```
create table Generic_F0120
(
  TableName VARCHAR(10) not null,
  Code VARCHAR(10) not null,
  Status CHAR(1) not null,
  ISN DECIMAL(10) not null,
  FieldNameSeq CHAR(3) not null,
  FieldName VARCHAR(20) null,
  FieldAttribute CHAR(1) null,
  FieldLength DECIMAL(2) null,
  Required CHAR(1) null,
  EditRules VARCHAR(45) null,
  FieldValue VARCHAR(30) null
);
```

```
alter table
  Generic_F0120
  add constraint pk_Generic_F0120 primary key
  (
    TableName,
    Code,
    Status
  ,
    ISN
  ,
    FieldNameSeq
  );
```

```
drop table MenuProgram_F0120;
```

```
create table
  MenuProgram_F0120
  (
    TableName VARCHAR(10) not null
  ,
    Code VARCHAR(10) not null
  ,
    Status CHAR(1) not null
  ,
    ISN DECIMAL(10) not null
  ,
    MenuProgramSeq CHAR(3) not null
  ,
    MenuProgram VARCHAR(8) null
  );
```

```
alter table
  MenuProgram_F0120
  add constraint pk_MenuProgram_F0120 primary key
  (
    TableName
  ,
    Code
  );
```

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```
,
Status
,
ISN
,
MenuProgramSeq
);
drop table UsageNote_F0120;

create table
UsageNote_F0120
(
  TableName VARCHAR(10) not null
,
  Code VARCHAR(10) not null
,
  Status CHAR(1) not null
,
  ISN DECIMAL(10) not null
,
  UsageNoteSeq CHAR(3) not null
,
  UsageNote VARCHAR(60) null
);

alter table
UsageNote_F0120
add constraint pk_UsageNote_F0120 primary key
(
  TableName
,
  Code
,
  Status
,
  ISN
,
  UsageNoteSeq
);

drop table UtilCodeTableView_F0120;

create table
UtilCodeTableView_F0120
(
  TableName VARCHAR(10) not null
,
  Code VARCHAR(10) not null
,
  Status CHAR(1) not null
,
  ISN DECIMAL(10) not null
,
  Description VARCHAR(30) null
,

```

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```
LongDescription VARCHAR(60) null
,
OwnerSystem CHAR(3) null
,
CodeFieldAttribute CHAR(1) null
,
CodeFieldLength DECIMAL(2) null
,
CodeEditRules VARCHAR(45) null
,
EffectiveDateMaint CHAR(1) null
,
StartDate TIMESTAMP null
,
StartDateInv VARCHAR(8) null
,
EndDate TIMESTAMP null
,
EndDateInv VARCHAR(8) null
,
Hold DECIMAL(7) null
);
```

```
alter table
  UtilCodeTableView_F0120
  add constraint pk_UtilCodeTableView_F0120 primary key
  (
    TableName
  ,
    Code
  ,
    Status
  ,
    ISN
  );
```

```
alter table
  Footprint_F0120
  add foreign key
  (
    TableName
  ,
    Code
  ,
    Status
  ,
    ISN
  )
  references
  UtilCodeTableView_F0120
  (
    TableName
  ,
    Code
  ,
    Status
  ,
    ISN
  );
```

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```
Status
,
ISN
);

alter table
Generic_F0120
add foreign key
(
  TableName
,
  Code
,
  Status
,
  ISN
)
references
UtICodeTableView_F0120
(
  TableName
,
  Code
,
  Status
,
  ISN
);

alter table
MenuProgram_F0120
add foreign key
(
  TableName
,
  Code
,
  Status
,
  ISN
)
references
UtICodeTableView_F0120
(
  TableName
,
  Code
,
  Status
,
  ISN
);

alter table
UsageNote_F0120
```

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```
add foreign key
(
  TableName
  ,
  Code
  ,
  Status
  ,
  ISN
)
references
UtilCodeTableView_F0120
(
  TableName
  ,
  Code
  ,
  Status
  ,
  ISN
);
```

FCCSC database and Tables

Once the empty database tables have been created, it will be necessary to load the extracted flat files obtained from the mainframe. Once the databases have be transferred from the mainframe

This file must be processed before loading into the empty database. (fccsc)

MySQL expects in the file for any field that should be null to have "\N" (must be uppercase). In a text editor replace all \t\t (where \t is a tab) with \t\N\t. Do this twice to get them all. This can be performed in the textpad editor (www.textpad.com) in the Replace dialog. Select "Regular Expression" then Find "\t\t" and Replace with "\t\N\t".

Once this is done, previously empty fields will contain 'N' which MySQL will treat as null values.

All that remains is to Load the data into the database using the provide LOAD command in MySQL..

Assuming MySQL is installed at C:\mysql

```
C:\> c:\mysql\bin\mysql <enter>
```

```
Mysql> use fccsc;
```

```
Mysql> LOAD DATA LOCAL INFILE flatfile INTO TABLE tablename ;
```

Where flatfile is the source and tablename is the destination or final tablename.

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Additional Required Database Tables

It is necessary to create several other database tables in the "college" database (previously setup as part of IRN 16289). These tables will remain empty for this release, but **MUST BE CREATED** for the successful operation of the Advising system.

The table names are:

```
Idcards
studentforms
webreportjobs
webreporttrigger
webreporttriggercriteria
webreporttriggerindex
```

The following commands are MySQL specific. You may have to adapt them for your specific database. Record data is not needed to populate the tables, they simply need to exist.

```
mysql>
```

```
use college;
```

```
CREATE TABLE `idcards` (
  `ISONumber` varchar(50) NOT NULL default '',
  `StudentId` varchar(9) NOT NULL default '',
  `LastName` varchar(25) NOT NULL default '',
  `FirstName` varchar(15) NOT NULL default '',
  `MiddleInit` varchar(10) default '',
  `Status` varchar(20) NOT NULL default '',
  `LibraryNumber` varchar(14) NOT NULL default '',
  `IssueDate` date default '0000-00-00',
  `BirthDate` date default '0000-00-00',
  `Photo` longblob,
  `Comment` varchar(15) default '',
  PRIMARY KEY (`StudentId`)
) TYPE=MyISAM

CREATE TABLE `studentforms` (
  `studentId` varchar(9) NOT NULL default '',
  `formName` varchar(50) NOT NULL default '',
  `fieldName` varchar(50) NOT NULL default '',
  `fieldValue` text,
  PRIMARY KEY (`studentId`,`formName`,`fieldName`),
  KEY `formFieldStudentKey` (`formName`,`fieldName`,`studentId`)
) TYPE=MyISAM
```

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```
CREATE TABLE `webreportjobs` (  
  `JobName` varchar(8) NOT NULL default '',  
  `JobDescription` varchar(100) NOT NULL default '',  
  `System` varchar(50) NOT NULL default '',  
  PRIMARY KEY (`JobName`)  
) TYPE=MyISAM  
  
CREATE TABLE `webreporttrigger` (  
  `JobName` varchar(8) NOT NULL default '',  
  `ReportNumber` int(11) NOT NULL default '0',  
  `StartDate` date NOT NULL default '0000-00-00',  
  `EndDate` date NOT NULL default '0000-00-00',  
  `HeaderStartLine` int(11) NOT NULL default '0',  
  `HeaderEndLine` int(11) NOT NULL default '0',  
  `TriggerType` varchar(50) NOT NULL default '',  
  `TriggerValue` varchar(50) NOT NULL default '',  
  `TriggerLine` int(11) NOT NULL default '0',  
  `TriggerColumn` int(11) NOT NULL default '0',  
  `StopTrigger` varchar(50) NOT NULL default '',  
  `StopTriggerColumn` int(11) NOT NULL default '0',  
  `ReportDescription` varchar(100) default '',  
  PRIMARY KEY (`JobName`,`ReportNumber`)  
  TYPE=MyISAM  
  
CREATE TABLE `webreporttriggercriteria` (  
  `JobName` varchar(8) NOT NULL default '',  
  `ReportNumber` int(11) NOT NULL default '0',  
  `TriggerNumber` int(11) NOT NULL default '0',  
  `TriggerLine` int(11) NOT NULL default '0',  
  `TriggerColumn` int(11) NOT NULL default '0',  
  `TriggerValue` varchar(50) NOT NULL default '',  
  PRIMARY KEY (`JobName`,`ReportNumber`,`TriggerNumber`)  
  TYPE=MyISAM  
  
CREATE TABLE `webreporttriggerindex` (  
  `TriggerType` varchar(50) NOT NULL default '',  
  `TriggerValue` varchar(50) NOT NULL default '',  
  `JobName` varchar(8) NOT NULL default '',  
  `DateTime` datetime NOT NULL default '0000-00-00 00:00:00',  
  `FileName` varchar(100) NOT NULL default '',  
  `ReportNumber` int(11) NOT NULL default '0',  
  `HeaderLineStart` int(11) NOT NULL default '0',  
  `HeaderLineEnd` int(11) NOT NULL default '0',  
  `DetailLineStart` int(11) NOT NULL default '0',  
  `DetailLineEnd` int(11) NOT NULL default '0',  
  PRIMARY KEY (`TriggerType`,`TriggerValue`,`JobName`,`DateTime`,`FileName`,`DetailLineStart`),  
  KEY (`TriggerType`,`TriggerValue`,`DateTime`,`JobName`,`FileName`,`DetailLineStart`,`TriggerDateTimeJob`)  
) TYPE=MyISAM
```

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

Properties

A new property file has been introduced: "advising.properties, with the following key-value pairs. The purpose of this file is to add suggested courses and workshops for the advised student. These appear in

/student/advising/advisingstudenttodolist.jsp

/student/advising/advisingstudentstepsforsuccess.jsp

advising.properties

```
SUGGESTION1=Consider taking SLS1501- 'College Success'  
SUGGESTION2=A suggested class  
SUGGESTION3=A suggested class  
SUGGESTION4=Complete 'Steps For Success Worksheet'
```

The display properties file is an existing property which has some new properties;

Two versions of the College name (short and long) and a property for the name of the web system, ie . EagleNet (TCC), MyBCC (BCC), Orion (FCCJ).. These properties are found in several of the Advising pages; since they may be used outside the Advising system, their reference has been added to jspdefinitions.jsp (which serves as a global "include"). Some of these properties have been used as include files in the past. Invoking them as global properties should be more convenient from a programming viewpoint

display.properties

```
COLLEGENAME_SHORT=FCCSC  
COLLEGENAME_LONG=Florida Community College Software Consortium  
WEB_APP_NAME=FCCSC Net
```

Sample Files

A number of sample PDF files were backported from TCC. These are specific to TCC and must be recreated for each college.

These sample files were placed in the student/advising/advisingtips and /WEB-INF/documents/data/advising directories

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

Change Request#: **17333**

Inter-Active Delivery System Impact:

Web Reports

Critical Dependencies

1. Requires "College Database" (SQL properties IRN-16289) to available (accessible and running).
2. The property "**WebReport_IndexDirectory**" in WebSupport.properties is of particular importance: It determines where the mainframe reports are stored and is important for several reasons:
 1. **Size**

The reports will grow to be fairly large in a short period of time. It is important to place them on a drive with sufficient space. Once loaded the reports are stored on the java server indefinitely; There is no software driven process to remove old reports. If you host the reports under Windows XP , you may wish to store the reports under zipped directories (Please refer to WinXP documentation or help for further information). Once accessed the reports can be viewed/printed as either PDF documents or simple text documents. As the documents are text; they compress very well and can a great deal of space can be saved. As a function of the Windows, they are automatically decompressed on reading—There is no need to manually compress/decompress (zip/unzip).
 2. **Security**

These reports need to be secure, many of them contain sensitive information, which must be protected. The Module security will control normal access via the web pages, however it is necessary to store them in a secure location, and not within the web page section of the web application. The default location `/WEB-INF/data/reports` is a secure one.
 3. **WebReport_IndexDirectory**" property can be changed to something of your choice .However, if you do you will have to create the empty directory yourself and need to make sure that the full absolute path is used as the value of that property. Failure to do so may make the software write to an unknown unsecure location.

The following is a sample of the Websupport properties, use this a guide, many settings will need reconfiguration for your site, particularly the web reports.

Some properties of note for Web reports;

```
WebReport_listFormat=R
// zcsml 2-24-04
// There appears to be no standard for listing directories under Ftp.
// Some machines list the filenames on the right, others on the left
// This property allows to select the correct format
// either R or r for "right" L or l for "left"
```

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// For example BCC uses "R" while TCC uses "L"

Note: You may find it necessary to ftp manually to your mainframe to observe the layout of the directory to determine the correct setting.

Note: sample contents of WebSupport.properties

Note the # are comments, do now use them in your live version.

```
# WebSupport.properties

WebClassSearch_Name=Class Search
WebClassSearch_Description=Web Class Search
WebClassSearch_SleepTime=900000 # milliseconds = 15 minutes
WebClassSearch_Class=standalone.WebClassSearch
#
WebSupport_Name=WebSupport
WebSupport_Description=WebSupport
WebSupport_Class=standalone.WebSupport
WebSupport_Password=mypassword
WebSupport_Port=8504
WebSupport_logger=c:\\work/jrun31/servers/default/dev1/WEB-
INF/classes/log4j.properties
#
WebReport_Class=standalone.WebReport
WebReport_MainframeIpAddress=10.120.2.3
WebReport_MainframePassword=user@fccsc.org
WebReport_MainframeUserId=anonymous
WebReport_Name=Web Reports
WebReport_NumberOfClasses=6
WebReport_ReportDirectory=reports
WebReport_SleepTime=60000
WebReport_TriggerFile=004.txt
WebReport_listFormat=R
WebReport_MainframeDirectory=power.lst.
WebReport_AutoCheck=60
WebReport_Class0=A
WebReport_Class1=B
WebReport_Class2=C
WebReport_Class3=D
WebReport_Class4=P
WebReport_Class5=T
WebReport_InactiveTimeout=60000
WebReport_IndexDirectory=C:\\work\\jrun31\\servers\\default\\dev1\\WEB-
INF\\data\\reports\\
WebReport_Job_BAX=students
WebReport_Job_BEA=personnel
WebReport_Job_BEC=personnel
WebReport_Job_BED=personnel
WebReport_Job_BEJ=personnel
WebReport_Job_BEP=personnel
WebReport_Job_BES=personnel
WebReport_Job_BET=personnel
WebReport_Job_BEY=personnel
```

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WebReport_Job_BFA=finaid
WebReport_Job_BIA=finance
WebReport_Job_BIC=finance
WebReport_Job_BIG=finance
WebReport_Job_BIP=finance
WebReport_Job_BKF=utilities
WebReport_Job_BOJ=utilities
WebReport_Job_BSS=security
WebReport_Job_BSY=security
WebReport_Job_BTA=students
WebReport_Job_BTB=students
WebReport_Job_BTC=students
WebReport_Job_BTD=students
WebReport_Job_BTF=students
WebReport_Job_BTO=students
WebReport_Job_BTR=students
WebReport_Job_BTS=students
WebReport_Job_BVH=students
WebReport_Job_FCC=facilities
WebReport_Job_FCR=facilities
WebReport_Job_FIA=finance
WebReport_Job_FIC=creditandcollections
WebReport_Job_FIG=finance
WebReport_Job_FII=finance
WebReport_Job_FIP=finance
WebReport_Job_FIR=finance
WebReport_Job_FIT=finance
WebReport_Job_FIU=finance
WebReport_Job_FIW=finaid
WebReport_Job_IAX=personnel
WebReport_Job_ITD=finance
WebReport_Job_ITF=finance
WebReport_Job_ITW=finaid
WebReport_Job_OPS=utilities
WebReport_Job_PEA=personnel
WebReport_Job_PEB=personnel
WebReport_Job_PED=personnel
WebReport_Job_PEJ=personnel
WebReport_Job_PEP=personnel
WebReport_Job_PER=personnel
WebReport_Job_PES=personnel
WebReport_Job_PET=personnel
WebReport_Job_PEY=personnel
WebReport_Job_SEC=security
WebReport_Job_STA=students
WebReport_Job_STC=students
WebReport_Job_STD=students
WebReport_Job_STF=students
WebReport_Job_STR=students
WebReport_Job_STS=students
WebReport_Job_STZ=students
WebReport_Job_UTB=utilities
WebReport_Job_UTL=utilities
WebReport_Job_WFB=finaid
WebReport_Job_WFC=finaid
WebReport_Job_WFD=finaid

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WebReport_Job_WFZ=finaid

Note: This current release version supports the VSE mainframe OS only. A latter release will support MVS.

The web reports module works by connecting to the mainframe via ftp (file transfer protocol), capturing a directory listing of each report "class" and then transferring the files found on the mainframe to the Java server. Once the reports are downloaded to the Java server, they will be become available as web server based reports via a menu system.

The menu divides the reports into sections corresponding to the various functional areas; Student, Security, Credit and Collections, Facilities, Finance, Financial Aid, Personnel/Payroll, Property Inventory.

Reading and accessing the reports is limited via "module security" based on the user logon and controlled by mainframe security modules. This security mechanism is discussed in IRN 16286. The process which downloads the report is run periodically (based on a property setting ; "WebReport_SleepTime"). This process is performed by a standalone program called "webSupport.java". This program relies on a number of properties which are contained in "WebSupport.properties".

The standalone "webSupport.java" may be run as a simple console application or setup to run as a NT service using the same wrapper as the java based Facts message manager.

The following batch file can be used to start WebSupport. This sample assumes the following;

1. You will need to change the line which refers to the location of your server files "lib" directory.
2. The line "set CP=." Contains a dot on the right-hand side. It reads "set CP equals dot".
3. The line with "mysql-connector" refers to the name of the jdbc driver. This driver name will depend on the SQL server which you use.
4. a subdirectory called "special" under lib was created. Included in this directory is a copy of "servlet.jar"

Note: Paths will need to be adjusted to your local environment

websupport.bat

```
@echo off
```

```
REM startup for websupport  
REM Sanford Langbart 4/15/2004
```

```
set LIB=c:\work\jrun31\servers\default\dev\WEB-INF\lib  
set CP=.  
set CP=%CP%;c:\work\jrun31\servers\default\dev\WEB-INF\classes  
set CP=%CP%;%LIB%\mysql-connector-java-3.0.11-stable-bin.jar  
set CP=%CP%;%LIB%\activation.jar  
set CP=%CP%;%LIB%\mail.jar  
set CP=%CP%;%LIB%\log4j-1.2.8.jar  
set CP=%CP%;%LIB%\special\servlet.jar
```

```
set args="WebSupport WebReport WebClassSearch"
```

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```
java -classpath %CP% standalone.WebSupport  
:pause
```

An auxiliary program called “webSupportGUI .java” can be run along with “webSupport.java” to monitor the progress of the downloading process. WebSupportGUI must be run after webSupport.java, it is simple a monitor – it is not necessary to run it in order to successfully run “webSupport.java”. However, this monitor application is very handy, and is worth exploring. WebSupportGUI does NOT need to be run the same machine as the actual webSupport application. It can be run on some other machine, thus providing remote monitoring of the applications. This monitor application is also used to monitor “web class search”, WebDPS (not currently released), and Web Support itself.

Note: Paths will need to be adjusted to your local environment

WebSupportGUI.bat

```
@echo off
```

```
set CP=  
set CP=%CP%;c:\work\jrun31\servers\default\dev\WEB-INF\classes  
set PORT=8504  
set HOST=127.0.0.1  
set PASSWORD=fred  
set APPS=WebSupport WebSupport WebReport Reports WebClassSearch ClassSearch
```

```
java -classpath %CP% standalone.WebSupportGUI %HOST% %PORT% %PASSWORD%  
%APPS%  
:pause
```

Change Request#: **17436**

Inter-Active Delivery System Impact:

Additional servlets and beans have been added to the log4j logging system. These programs will now be sending data to the files defined in log4j.properties.

Change Request#: **17438**

Inter-Active Delivery System Impact:

Modified student logon screen text. Under the Student ID: input field, the screen message now reads: “Assigned by school; format = 9 characters “. This is to clarify that this field is no longer an SSN but rather a StudentID.

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INTER-ACTIVE DELIVERY SYSTEM IMPACT

Change Request#: **17484**

Inter-Active Delivery System Impact:

Improved functionality of Prospects module with new web security modules Modified programs make use of new security modules. Prospect users can now create a new prospect account, and logon to the system in a fashion similar to a regular student user. These accounts will however have to respond to the "college policy page" each time they logon the system (even if the system is set for a once a term response by a student user. This is caused by the lack of a term record to permanently store the response flag. As Prospects, these users do not yet have a term record.

Prospect candidates access the system via a regular logon, after filling in a form with demographic information. The system will generate a StudentID (ie. personID) and a PIN (using the birthdate). The system will generate an SSN if none is provided, or use the one entered by the "prospect". Once this account is created, the StudentID and PIN will be displayed on the screen along with a reminder to record the information for future logons. The student prospect may then logon to the system and continue.