

SNMP Guide

JEUS 9.1

TMAXSOFT

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Document History

Product Version	Guide Version	Date	Remarks
JEUS 9.1	3.3.1	2025-12-10	-
JEUS 9	3.1.2	2025-03-24	-
JEUS 9	3.1.1	2024-12-24	-

Table of Contents

1. Introduction	1
1.1. Overview	1
1.2. Components	1
2. SNMP Agent	3
2.1. Overview	3
2.2. Configuring the SNMP Adapter	3
3. SNMP MIB	5
3.1. Overview	5
3.2. Browsing the MIB	5
3.3. Object Identifier (OID)	5
3.4. JEUS SNMP OID Suffix	6
3.5. Static OID and Dynamic OID	7
4. SNMP Manager Application	9
4.1. Overview	9
4.2. SNMP Client Program Sample	9
5. SNMP Example	12
Appendix A: JEUS SNMP MIB Information	13
A.1. Overview	13
A.2. Mapping OID to Attributes	13
A.3. TMAX-JEUS9.1-MIB.mib	21

1. Introduction

This chapter describes the basic concept and structure of JEUS SNMP. This chapter describes the relationship between the JEUS SNMP agent and the JEUS system and the relationship between JEUS SNMP agent and the JEUS JMX . This chapter also describes an SNMP manager application that exchanges messages with the SNMP agent.

1.1. Overview

SNMP stands for Simple Network Management Protocol. It is a standard protocol to monitor hardware and software in the network. The JMX 1.2 specifications provide protocol adapter that supports SNMP. The Jakarta Management 1.1 specification defines a Management Information Base (MIB) that is used by the network or system management protocols for Internet communications.

1.2. Components

The main components for the JEUS SNMP agent are as follows:

- **JEUS SNMP Agent**

Communicates with the JMX Mbean server and logically resides in JEUS. JEUS SNMP agent provides base structure to manage JEUS and implements Jakarta Management 1.1. For more information about JEUS server structure, refer to *JEUS Server Guide*.

Provides the JEUS management information structure. The MIB file name is TMAX-JEUS-9.1-MIB.mib.

- **SNMP Manager**

Exchanges messages with the SNMP agent.

When the SNMP Manager application sends SNMP messages, the SNMP agent listens to the specified port. If a request comes through the port, the SNMP agent finds the OID in the MIB-tree to find the protocol data unit (hereafter PDU) type, and calls the JEUS JMX MBean server. When the SNMP agent receives the desired information, it returns the value to the SNMP Manager application.

SNMP Agent

The JEUS SNMP Agent module is a useful component to monitor the JEUS management system through SNMP.

As a management protocol for web application server, the JEUS SNMP agent communicates with the JEUS JMX MBean server and supports the SNMP Manager application.

The JEUS SNMP agent supports the following protocols.

- SNMPv1
- SNMPv2
- SNMPv3

The JEUS SNMP agent operates based on the JEUS JMX. The JEUS SNMP agent uses the JEUS JMX API to retrieve information. The SNMP agent uses the JEUS JMX API as the second-level service component of the JEUS management system, and each JEUS SNMP agent is related to one of the JVMs like a server in the JEUS system.

For example, the JMX Mbean manages the information about all modules that are deployed on the EJB engine. The SNMP Manager sends the information (JEUS SNMP OID) to the SNMP agent of an EJB engine to retrieve information about the deployed modules.

The SNMP agent instance runs as a protocol adapter for JEUS JMX and handles SNMP packets received from SNMP Manager applications. The SNMP agent also listens on the specified port for SNMP Manager requests. If the port is not specified, the SNMP agent does not run.

All agent instances work in the same way. Therefore, each agent can retrieve all information concerning JEUS management system. In order to run more than one agent instance on the same machine, the port numbers should be different.



To run the JEUS SNMP agent, the SNMP adapter port must be set.

SNMP Manager Application

The SNMP Manager is an application that manages a specific system, especially one that manages communication tools. In Jakarta EE, the SNMP Manager manages enterprise applications, especially middleware like Web Application Server (WAS).

The SNMP Manager application sends management information request to the SNMP agent, with references to MIB. The application parses the MIB file to analyze the structure of the information and makes it easier for the Manager to read and manage the information.

2. SNMP Agent

This chapter describes about environment configurations of the JEUS SNMP agent.

2.1. Overview

JEUS SNMP agents have characteristics of J2EE components as well as that of the enterprise message-oriented middleware.

- Fully supports the Jakarta management 1.1 specifications.
- Supports SNMPv1 and SNMPv2, which are commonly used as NMS protocols.

All SNMP Managers that use SNMPv1 and SNMPv2 can retrieve internal information from JEUS through the agent.

- Provides SNMPv3 for secure communication with SNMP agents.

SNMP Manager is required to securely communicate with SNMP agents. All SNMP Managers that use SNMPv3 can securely retrieve information.

- JEUS SNMP agents can be executed on each of their corresponding JEUS JVM (server).

2.2. Configuring the SNMP Adapter

The following explains how to configure an SNMP agent using the JEUS configuration file (domain.xml).

```
<server>
...
  <jmx-manager>
    ...
    <snmp-adaptor>
      <snmp-adaptor-port>8099</snmp-adaptor-port>
      <snmp-version>3</snmp-version>
      <snmp-max-packet-size>256</snmp-max-packet-size>
      <trap-demon>
        <ip-address>127.0.0.1</ip-address>
        <port>9099</port>
      </trap-demon>
      <pooling>
        <min>1</min>
        <max>5</max>
        <period>30000</period>
      </pooling>
    </snmp-adaptor>
    ...
  </jmx-manager>
  ...
</server>
```

The following describes each item.

Item	Description
Snmp Adaptor Port	Listener port of the SNMP adapter. SNMP Manager can request management information through this port.
Snmp Version	SNMP version. 1, 2, or 3 can be used.
Snmp Max Packet Size	Maximum SNMP packet size. The minimum size is 256 bytes.
Snmp Security	Indicates whether to enable SNMP security. Security can only be specified in SNMPv3.
Trap Demon	Server to send TRAP messages to after an error occurs. Multiple addresses can be used. Messages will be sent to all specified IP addresses.
Pooling	If requests arrive for SNMP agent simultaneously, a thread pool can be used. <ul style="list-style-type: none">◦ Min, Max: The minimum & the maximum number of worker threads.◦ Period: Worker thread check interval.



The thread pool configuration is shared by various JEUS components. For more information, refer to relevant guides.

3. SNMP MIB

This chapter describes the SNMP MIB.

3.1. Overview

You can access all JEUS server attributes, which are defined in JEUS MIB. The MIB is a part of the standard SNMP.



Refer to www.ietf.org for information about MIB.

3.2. Browsing the MIB

The JEUS MIB file is defined in the file, TMAX-JEUS9.1-MIB.mib, in the following directory.

```
JEUS_HOME/lib/system
```

You can open the MIB file directly, and check the OID attribute mapping information in [JEUS SNMP MIB Information](#).

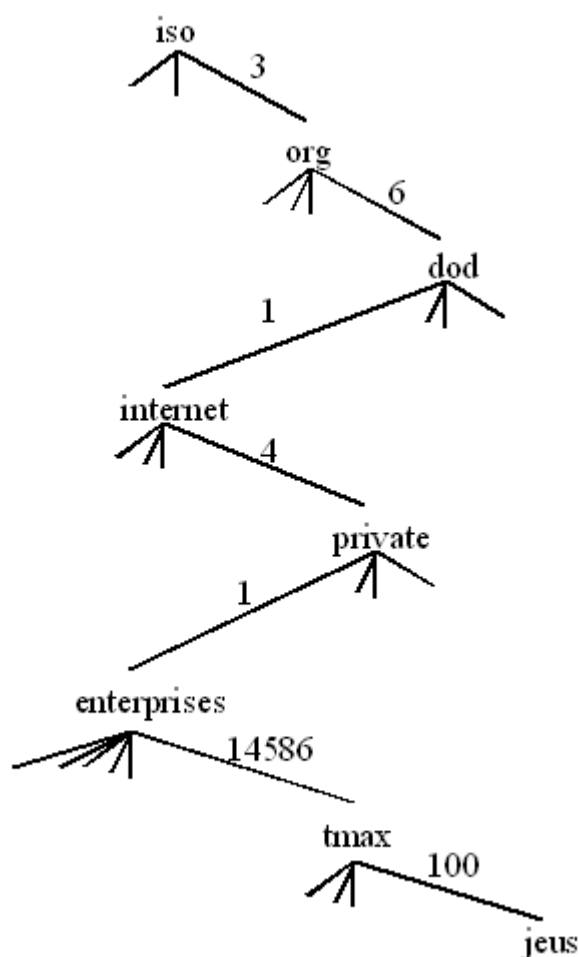
Third party MIB browsers can be used. JEUS does not provide a MIB browser, but most of SNMP utility vendors provide one.

3.3. Object Identifier (OID)

Object ID (OID) is a sequence of integers that uniquely identifies a managed object and defines the path to the object using the OID tree. The OID is defined in the MIB file.

Each OID is mapped to each attribute of the JEUS Mbean. To get information on a particular OID, send a SNMP packet with the OID value to the JEUS SNMP agent.

The following is the JEUS MIB OID tree.



JEUS MIB OID

TmaxSoft Enterprise OID is 1.3.6.1.4.1.14586 so the prefix of all JEUS attributes is 1.3.6.1.4.1.14586.100. For example, the OID of the server version attribute of the JEUS Manager is 1.3.6.1.4.1.14586.100.3.2.

3.4. JEUS SNMP OID Suffix

The following is standard suffixes for retrieving an object array.

Suffix	Description
0	Gets all objects.
1	Gets the first object among all the objects.

For example, in the OID 1.3.6.1.4.1.14586.100.9.1.1, 1.3.6.1.4.1.14586.100.9.1 refers to EJB module object name attribute, and 1.3.6.1.4.1.14586.100.9.1.1 refers to the first EJB module object name. Therefore, GET_NEXT 1.3.6.1.4.1.14586.100.9.1 returns the value 1.3.6.1.4.1.14586.100.9.2 instead of 1.3.6.1.4.1.14586.100.9.1.1.

The JEUS SNMP agent provides a special OID suffix "9999" to retrieve the total number of objects. For

example, GET 1.3.6.1.4.1.14586.100.9.1.9999 will return 10 if 10 EJB modules are deployed on JEUS.



Not all trees have a suffix, so only the actual OID can be searched.

3.5. Static OID and Dynamic OID

JEUS supports two kinds of OIDs.

- **Static OID**

- The static OID is made up of only MIB-based information.
- Objects that have the same characteristics have the same OID. If multiple objects have the same OID, their values are returned in a list.

For example, when two web containers operate in JEUS, if an OID that corresponds to the container names is requested, a list of values, such as [server name1, server name2], is returned.

- It is not easy to monitor an object if multiple objects have the same OID.

- **Dynamic OID**

- Dynamic OID made by appending 32 numbers separated by "." to MIB-based OID value in order to allocate a unique OID to an object (Example: [MIB-based OID].1.2.3.4.5---.31.32).
- Dynamic OID made by appending 32 numbers separated by "." to MIB-based OID value in order to allocate a unique OID to an object (Example: [MIB-based OID].1.2.3.4.5---.31.32).
- The SNMP agent dynamically creates a 32-digit OID when an object is created. It is easy to monitor a specific object because each object has a dynamic OID.

The following shows the difference of using static OID and dynamic OID for getting the maximum and minimum values of the thread pool of each container, when two containers operate in JEUS.

- **Using Static OID**

A list of objects that correspond to the MIB based OID is returned.

```
[OID for maximum value]=[ maximum, maximum' ], [OID for minimum value]=[ minimum, minimum' ]
```

In the returned list, it is not possible to tell whether the maximum and minimum values in the same position are values from the same container. A value from one container can be placed in the first or second positions.

- **Using Dynamic OID**

The result is displayed as follows. It provides the exact values for each object.

```
[OID for maximum value].[Dynamic OID of server1]=maximum, [OID for minimum value].[Dynamic OID of
```

```
server1]=minimum
```

In JEUS, SNMP uses the dynamic OID by default. In order to use the static OID, execute the following through the JEUS execution script.

```
-Djeus.management.snmp.dynamic=false
```

4. SNMP Manager Application

This chapter describes how to develop JEUS SNMP Manager applications and how to configure them.

4.1. Overview

SNMP Managers that conforms to the SNMP (SNMPv1, SNMPv2, and SNMPv3) standard can be integrated with JEUS SNMP.



For more information about SNMP, refer to the SNMP Management Framework related specification (Jakarta management 1.1 specification).

4.2. SNMP Client Program Sample

Application types vary depending on the occasion. This section shows a client program that uses the SNMP4J API.

SNMP4J is an open source API and provides SNMP implementation classes for J2SE 1.4 or higher. The SNMP client application, that uses SNMP4J API, must perform the following steps.

1. Set the SNMP object OID and the PDU type.
2. Set the address and port number of the target, where SNMP information will be retrieved from, and set the SNMP version. Since JEUS SNMP uses UDP, use the UDPAddress.
3. Create an SNMP message object and then a message to send.
4. Send a message and receive a response.

Example

The following is a SNMP client application program example that uses the SNMP4J API.

SNMP Client Application: <SnmclientSample.java>

```
import java.net.*;
import java.util.*;
import org.snmp4j.*;
import org.snmp4j.PDU;
import org.snmp4j.mp.SnmpConstants;
import org.snmp4j.event.ResponseEvent;
import org.snmp4j.transport.*;
import org.snmp4j.smi.*;

public class SnmclientSample{
    static int defaultPort = 9999;
    static String defaultIP = "127.0.0.1";
    static String defaultOID = "1.3.6.1.4.1.14586.100.2.1";
```

```

static void testGetNext(String oid) throws java.io.IOException {
    //1. Make Protocol Data Unit
    PDU pdu = new PDU();
    pdu.add(new VariableBinding(new OID(defaultOID)));
    pdu.setType(PDU.GETNEXT);

    //2. Make target
    CommunityTarget target = new CommunityTarget();
    UdpAddress targetAddress = new UdpAddress();
    targetAddress.setInetAddress(InetAddress.getByName(defaultIP));
    targetAddress.setPort(defaultPort);
    target.setAddress(targetAddress);
    target.setCommunity(new OctetString("public"));
    target.setVersion(SnmpConstants.version1);

    //3. Make SNMP Message. Simple!
    Snmp snmp = new Snmp(new DefaultUdpTransportMapping());

    //4. Send Message and Recieve Response
    snmp.listen();
    ResponseEvent response = snmp.send(pdu, target);
    if (response.getResponse() == null) {
        System.out.println("Error: There is some problems.");
    } else {
        Vector variableBindings = response.getResponse().getVariableBindings();
        for( int i = 0; i < variableBindings.size(); i++){
            System.out.println(variableBindings.get(i));
        }
    }
    snmp.close();
}

public static void main(String[] args) throws java.io.IOException {
    // get the SNMP port number
    if (args.length > 0) {
        defaultPort = Integer.parseInt (args[0]);
    }
    System.out.println ("PORT : " + defaultPort);

    // get the ip address of the machine that the SNMP agent runs on
    if (args.length > 1) {
        defaultIP = args[1];
    }
    System.out.println ("IP : " + defaultIP);

    // get the OID number that you want to get the value of
    if (args.length > 2) {
        defaultOID = args[2];
    }
    System.out.println ("OID : " + defaultOID);
    try {
        testGetNext(defaultOID);
    } catch (Exception ex) {
        System.out.println ("ex *** : " + ex);
        ex.printStackTrace ();
    }
}
}

```



Refer to [SNMP4j Official Documentation](#) for information about SNMP4j API.

5. SNMP Example

This chapter describes how to start JEUS SNMP agent and how the SNMP client application retrieves monitoring information from JEUS.

1. Modify the SNMP client example program in [SNMP Client Program Sample](#) and compile it. In order to compile the example program, SNMP4j is required. You can download the SNMP4j API at www.snmp4j.org.
2. Refer to [Configuring the SNMP Adapter](#) in [SNMP Agent](#) to configure the SNMP Adaptor. The example uses port 9999, so set the SNMP Adapter port to '9999'.
3. Restart the server. If SNMP Adapter is in use, the following log appears.

```
. . .  
[2016.08.03 16:32:12][0] [adminServer-1] [SNMP-0004] The SNMP agent is ready using the port 9999.  
. . .
```



This example assumes the JEUS server name as 'adminServer'.

4. Execute the example program created in step 1. Set the classpath to SNMP4j in order to run the program. This example assumes that SNMP4j is the file 'SNMP4j.jar' under the '/home/user1/lib' directory.

```
$ java -classpath /home/user1/lib/SNMP4J.jar SnpclientSample  
PORT : 9999  
IP : 127.0.0.1  
OID : 1.3.6.1.4.1.14586.100.2.1  
1.3.6.1.4.1.14586.100.2.1.0 = [JEUS:JMXManager=adminServer,j2eeType=J2EEDomain,name=domain1]
```



This program is set to access the port number, 127.0.0.1:9999. In order to access a different address and port, provide parameter values for the port number and IP address when executing the program.

Appendix A: JEUS SNMP MIB Information

This appendix describes the JEUS SNMP MIB in detail.

A.1. Overview

The developers for SNMP Manager need the MIB file as a reference. The JEUS MIB file, TMAX-JEUS9.1-MIB.mib, is located in the following directory.

```
JEUS_HOME/lib/system
```

This file can be used to check the mapping of JEUS SNMP MIB file contents and their attribute values and the mapping of OIDs.

A.2. Mapping OID to Attributes

For better understanding of TMAX-JEUS-MIB, this section provides a simple table of OIDs and attributes.

The mapping format is as follows:

```
[OID(group name)] [attribute(attribute name)]
```

The common prefix "1.3.6.1.4.1.14586.100." for all OIDs is omitted. (TmaxSoft Enterprise Id is 14586 and JEUS product Id is 100).

The difference in the mapping format, from JEUS 4.x version, is that **[OID(Group Name)]** is placed before **[Attribute(Attribute Name)]**. This is to prevent creating a duplicate MIB object name.

The following is a table of OIDs and attributes.

```
2.1 j2EEDomainobjectName
2.2 j2EEDomainservers
3.1 j2EEServerobjectName
3.2 j2EEServerserverVersion
3.3 j2EEServerserverVendor
3.4 j2EEServerjavaVMs
3.5 j2EEServerdeployedObjects
3.6 j2EEServerresources
3.8 j2EEServerjeusServices
3.9 j2EEServerengines
4.1 jVMobjectName
4.2 jVMjavaVersion
4.3 jVMjavaVendor
4.4 jVMnode
4.6 jVMoSName
```

- 4.7 jVMoSVersion
- 4.8 jVMallProperties
 - 4.101 jVMheapSize-upperBound
 - 4.102 jVMheapSize-lowerBound
 - 4.103 jVMheapSize-highWaterMark
 - 4.104 jVMheapSize-lowWaterMark
 - 4.105 jVMheapSize-current
 - 4.111 jVMupTime-count
 - 4.121 jVMtotalSize-highWaterMark
 - 4.122 jVMtotalSize-lowWaterMark
 - 4.123 jVMtotalSize-current
- 6.1 j2EEApplicationobjectName
- 6.2 j2EEApplicationdeploymentDescriptor
- 6.3 j2EEApplicationserver
- 6.4 j2EEApplicationmodules
- 6.5 j2EEApplicationmoduleType
- 6.6 j2EEApplicationapplicationType
- 6.7 j2EEApplicationjeusDeploymentPlan
- 6.8 j2EEApplicationtargetModuleID
- 8.1 appClientModuleobjectName
- 8.2 appClientModuledeploymentDescriptor
- 8.3 appClientModuleserver
- 8.4 appClientModulejavaVMs
- 8.5 appClientModuleapplicationType
- 8.6 appClientModulemoduleType
- 8.7 appClientModulejeusDeploymentPlan
- 8.8 appClientModuletargetModuleID
- 9.1 eJBModuleobjectName
- 9.2 eJBModuledeploymentDescriptor
- 9.3 eJBModuleserver
- 9.4 eJBModulejavaVMs
- 9.5 eJBModuleejbs
- 9.6 eJBModuleejbCount
- 9.7 eJBModuleclientViewPath
- 9.8 eJBModulejeusDeploymentPlan
- 9.9 eJBModuletargetModuleID
- 9.10 eJBModulemoduleType
- 9.11 eJBModuleapplicationType
- 11.1 messageDrivenBeanobjectName
 - 11.101 messageDrivenBeancreateCount-count
 - 11.111 messageDrivenBeanremoveCount-count
 - 11.121 messageDrivenBeanrequestCount-count
 - 11.131 messageDrivenBeancommittedCount-count
 - 11.141 messageDrivenBeanrolledbackCount-count
 - 11.151 messageDrivenBeantimeoutRolledbackCount-count
 - 11.161 messageDrivenBeanmessageCount-count
 - 11.171 messageDrivenBeanactiveEJBBeanCount-highWaterMark
 - 11.172 messageDrivenBeanactiveEJBBeanCount-lowWaterMark
 - 11.173 messageDrivenBeanactiveEJBBeanCount-current
 - 11.181 messageDrivenBeantotalEJBBeanCount-highWaterMark
 - 11.182 messageDrivenBeantotalEJBBeanCount-lowWaterMark
 - 11.183 messageDrivenBeantotalEJBBeanCount-current
- 12.1 entityBeanobjectName
 - 12.101 entityBeancreateCount-count
 - 12.111 entityBeanremoveCount-count
 - 12.121 entityBeanrequestCount-count
 - 12.131 entityBeancommittedCount-count
 - 12.141 entityBeanrolledbackCount-count
 - 12.151 entityBeantimeoutRolledbackCount-count

12.161 entityBeanreadyCount-highWaterMark
 12.162 entityBeanreadyCount-lowWaterMark
 12.163 entityBeanreadyCount-current
 12.171 entityBeanpooledCount-highWaterMark
 12.172 entityBeanpooledCount-lowWaterMark
 12.173 entityBeanpooledCount-current
 12.181 entityBeanautoRemovedEJBObjectCount-count
 12.191 entityBeantotalEJBBeanCount-highWaterMark
 12.192 entityBeantotalEJBBeanCount-lowWaterMark
 12.193 entityBeantotalEJBBeanCount-current
 12.201 entityBeanactiveEJBBeanCount-highWaterMark
 12.202 entityBeanactiveEJBBeanCount-lowWaterMark
 12.203 entityBeanactiveEJBBeanCount-current
 12.211 entityBeantotalThreadCount-highWaterMark
 12.212 entityBeantotalThreadCount-lowWaterMark
 12.213 entityBeantotalThreadCount-current
 12.221 entityBeanactiveThreadCount-highWaterMark
 12.222 entityBeanactiveThreadCount-lowWaterMark
 12.223 entityBeanactiveThreadCount-current
 12.231 entityBeantotalEJBObjectCount-highWaterMark
 12.232 entityBeantotalEJBObjectCount-lowWaterMark
 12.233 entityBeantotalEJBObjectCount-current
 12.241 entityBeanactiveEJBObjectCount-highWaterMark
 12.242 entityBeanactiveEJBObjectCount-lowWaterMark
 12.243 entityBeanactiveEJBObjectCount-current
 12.251 entityBeanpassiveCount-highWaterMark
 12.252 entityBeanpassiveCount-lowWaterMark
 12.253 entityBeanpassiveCount-current
 14.1 statefulSessionBeanobjectName
 14.101 statefulSessionBeancreateCount-count
 14.111 statefulSessionBeanremoveCount-count
 14.121 statefulSessionBeanrequestCount-count
 14.131 statefulSessionBeancommittedCount-count
 14.141 statefulSessionBeanrolledbackCount-count
 14.151 statefulSessionBeantimeoutRolledbackCount-count
 14.161 statefulSessionBeanmethodReadyCount-highWaterMark
 14.162 statefulSessionBeanmethodReadyCount-lowWaterMark
 14.163 statefulSessionBeanmethodReadyCount-current
 14.171 statefulSessionBeanpassiveCount-highWaterMark
 14.172 statefulSessionBeanpassiveCount-lowWaterMark
 14.173 statefulSessionBeanpassiveCount-current
 14.181 statefulSessionBeanautoRemovedEJBObjectCount-count
 14.191 statefulSessionBeantotalEJBBeanCount-highWaterMark
 14.192 statefulSessionBeantotalEJBBeanCount-lowWaterMark
 14.193 statefulSessionBeantotalEJBBeanCount-current
 14.201 statefulSessionBeanactiveEJBBeanCount-highWaterMark
 14.202 statefulSessionBeanactiveEJBBeanCount-lowWaterMark
 14.203 statefulSessionBeanactiveEJBBeanCount-current
 14.211 statefulSessionBeantotalThreadCount-highWaterMark
 14.212 statefulSessionBeantotalThreadCount-lowWaterMark
 14.213 statefulSessionBeantotalThreadCount-current
 14.221 statefulSessionBeanactiveThreadCount-highWaterMark
 14.222 statefulSessionBeanactiveThreadCount-lowWaterMark
 14.223 statefulSessionBeanactiveThreadCount-current
 14.231 statefulSessionBeantotalEJBObjectCount-highWaterMark
 14.232 statefulSessionBeantotalEJBObjectCount-lowWaterMark
 14.233 statefulSessionBeantotalEJBObjectCount-current
 14.241 statefulSessionBeanactiveEJBObjectCount-highWaterMark
 14.242 statefulSessionBeanactiveEJBObjectCount-lowWaterMark

- 14.243 statefulSessionBeanactiveEJBObjectCount-current
- 15.1 statelessSessionBeanobjectName
- 15.101 statelessSessionBeancreateCount-count
- 15.111 statelessSessionBeanremoveCount-count
- 15.121 statelessSessionBeanrequestCount-count
- 15.131 statelessSessionBeancommittedCount-count
- 15.141 statelessSessionBeanrolledbackCount-count
- 15.151 statelessSessionBeantimeoutRolledbackCount-count
- 15.161 statelessSessionBeanmethodReadyCount-highWaterMark
- 15.162 statelessSessionBeanmethodReadyCount-lowWaterMark
- 15.163 statelessSessionBeanmethodReadyCount-current
- 15.171 statelessSessionBeantotalEJBBeanCount-highWaterMark
- 15.172 statelessSessionBeantotalEJBBeanCount-lowWaterMark
- 15.173 statelessSessionBeantotalEJBBeanCount-current
- 15.181 statelessSessionBeanactiveEJBBeanCount-highWaterMark
- 15.182 statelessSessionBeanactiveEJBBeanCount-lowWaterMark
- 15.183 statelessSessionBeanactiveEJBBeanCount-current
- 15.191 statelessSessionBeantotalThreadCount-highWaterMark
- 15.192 statelessSessionBeantotalThreadCount-lowWaterMark
- 15.193 statelessSessionBeantotalThreadCount-current
- 15.201 statelessSessionBeanactiveThreadCount-highWaterMark
- 15.202 statelessSessionBeanactiveThreadCount-lowWaterMark
- 15.203 statelessSessionBeanactiveThreadCount-current
- 16.1 webModuleobjectName
- 16.2 webModuledeploymentDescriptor
- 16.3 webModuleserver
- 16.4 webModulejavaVMs
- 16.5 webModuleservlets
- 16.8 webModulerealDocBase
- 16.9 webModulejeusDeploymentPlan
- 16.10 webModuletargetModuleID
- 16.11 webModulemoduleType
- 16.12 webModuleapplicationType
- 16.13 webModuleautoReload
- 16.101 webModulerequestCount-count
- 16.111 webModuleallSessionsSize-count
- 16.121 webModuleactiveSessionsSize-count
- 16.131 webModulepassivateSessionsSize-count
- 16.141 webModulelocalSessionsSize-count
- 16.151 webModuleprocessingTime-count
- 17.1 servletobjectName
- 17.2 servletservletInfo
- 17.3 servletaverageExecutionTime
- 17.101 servletserviceTime-count
- 17.102 servletserviceTime-maxTime
- 17.103 servletserviceTime-minTime
- 17.104 servletserviceTime-totalTime
- 18.1 resourceAdapterModuleobjectName
- 18.2 resourceAdapterModuledeploymentDescriptor
- 18.3 resourceAdapterModuleserver
- 18.4 resourceAdapterModulejavaVMs
- 18.6 resourceAdapterModulemoduleType
- 18.7 resourceAdapterModuleapplicationType
- 18.8 resourceAdapterModulejeusDeploymentPlan
- 18.9 resourceAdapterModuletargetModuleID
- 19.1 resourceAdapterobjectName
- 21.1 javaMailResourceobjectName
- 21.2 javaMailResourceproperty
- 22.1 jCAResourceobjectName

- 23.1 jCAConnectionFactoryObjectName
- 24.1 jCManagedConnectionFactoryObjectName
- 25.1 jDBCResourceObjectName
- 25.2 jDBCResourcejdbcDataSources
- 25.101 jDBCResourceconnectionPools-createCount-count
- 25.111 jDBCResourceconnectionPools-closeCount-count
- 25.121 jDBCResourceconnectionPools-poolSize-upperBound
- 25.122 jDBCResourceconnectionPools-poolSize-lowerBound
- 25.123 jDBCResourceconnectionPools-poolSize-highWaterMark
- 25.124 jDBCResourceconnectionPools-poolSize-lowWaterMark
- 25.125 jDBCResourceconnectionPools-poolSize-current
- 25.131 jDBCResourceconnectionPools-freePoolSize-upperBound
- 25.132 jDBCResourceconnectionPools-freePoolSize-lowerBound
- 25.133 jDBCResourceconnectionPools-freePoolSize-highWaterMark
- 25.134 jDBCResourceconnectionPools-freePoolSize-lowWaterMark
- 25.135 jDBCResourceconnectionPools-freePoolSize-current
- 25.141 jDBCResourceconnectionPools-waitingThreadCount-highWaterMark
- 25.142 jDBCResourceconnectionPools-waitingThreadCount-lowWaterMark
- 25.143 jDBCResourceconnectionPools-waitingThreadCount-current
- 25.161 jDBCResourceconnectionPools-waitTime-count
- 25.162 jDBCResourceconnectionPools-waitTime-maxTime
- 25.163 jDBCResourceconnectionPools-waitTime-minTime
- 25.164 jDBCResourceconnectionPools-waitTime-totalTime
- 25.171 jDBCResourceconnectionPools-useTime-count
- 25.172 jDBCResourceconnectionPools-useTime-maxTime
- 25.173 jDBCResourceconnectionPools-useTime-minTime
- 25.174 jDBCResourceconnectionPools-useTime-totalTime
- 25.181 jDBCResourceconnectionPools-jdbcDataSource
- 26.1 jBCDataSourceObjectName
- 26.2 jBCDataSourcejdbcDriver
- 26.101 jBCDataSourcecreateCount-count
- 26.111 jBCDataSourcecloseCount-count
- 26.121 jBCDataSourcepoolSize-upperBound
- 26.122 jBCDataSourcepoolSize-lowerBound
- 26.123 jBCDataSourcepoolSize-highWaterMark
- 26.124 jBCDataSourcepoolSize-lowWaterMark
- 26.125 jBCDataSourcepoolSize-current
- 26.131 jBCDataSourcefreePoolSize-upperBound
- 26.132 jBCDataSourcefreePoolSize-lowerBound
- 26.133 jBCDataSourcefreePoolSize-highWaterMark
- 26.134 jBCDataSourcefreePoolSize-lowWaterMark
- 26.135 jBCDataSourcefreePoolSize-current
- 26.141 jBCDataSourcewaitingThreadCount-highWaterMark
- 26.142 jBCDataSourcewaitingThreadCount-lowWaterMark
- 26.143 jBCDataSourcewaitingThreadCount-current
- 26.161 jBCDataSourcewaitTime-count
- 26.162 jBCDataSourcewaitTime-maxTime
- 26.163 jBCDataSourcewaitTime-minTime
- 26.164 jBCDataSourcewaitTime-totalTime
- 26.171 jBCDataSourceuseTime-count
- 26.172 jBCDataSourceuseTime-maxTime
- 26.173 jBCDataSourceuseTime-minTime
- 26.174 jBCDataSourceuseTime-totalTime
- 27.1 jBCDriverObjectName
- 28.1 jMSResourceObjectName
- 28.5 jMSResourcejMSConnectionFactoryResourceNames
- 28.6 jMSResourcejMSDestinationResourceNames
- 29.1 jNDIResourceObjectName
- 30.1 jTAResourceObjectName

30.3 jTAResourceactiveTimeout
 30.4 jTAResourceprepareTimeout
 30.5 jTAResourcepreparedTimeout
 30.6 jTAResourcecommitTimeout
 30.7 jTAResourcerecoveryTimeout
 30.8 jTAResourceincompleteTimeout
 30.101 jTAResourceactiveCount-count
 30.111 jTAResourcecommittedCount-count
 30.121 jTAResourcerolledbackCount-count
 30.131 jTAResourcetimeoutCount-count
 30.141 jTAResourcetimeoutRolledbackCount-count
 30.151 jTAResourceactiveTimeoutCount-count
 30.161 jTAResourceprepareTimeoutCount-count
 30.171 jTAResourcepreparedTimeoutCount-count
 30.181 jTAResourcecommitTimeoutCount-count
 30.201 jTAResourceexecutionTime-count
 30.202 jTAResourceexecutionTime-maxTime
 30.203 jTAResourceexecutionTime-minTime
 30.204 jTAResourceexecutionTime-totalTime
 32.1 uRLResourceobjectName
 32.2 uRLResourceuRLInfo
 33.1 jMSConnectionResourceobjectName
 33.2 jMSConnectionResourcejMSSessionResourceNames
 33.101 jMSConnectionResourcesessions-messageCount-count
 33.111 jMSConnectionResourcesessions-pendingMessageCount-count
 33.121 jMSConnectionResourcesessions-expiredMessageCount-count
 33.131 jMSConnectionResourcesessions-messageWaitTime-count
 33.132 jMSConnectionResourcesessions-messageWaitTime-maxTime
 33.133 jMSConnectionResourcesessions-messageWaitTime-minTime
 33.134 jMSConnectionResourcesessions-messageWaitTime-totalTime
 33.141 jMSConnectionResourcesessions-durableSubscriptionCount-count
 33.151 jMSConnectionResourcesessions-producers-destination
 33.161 jMSConnectionResourcesessions-producers-messageCount-count
 33.171 jMSConnectionResourcesessions-producers-pendingMessageCount-count
 33.181 jMSConnectionResourcesessions-producers-expiredMessageCount-count
 33.191 jMSConnectionResourcesessions-producers-messageWaitTime-count
 33.192 jMSConnectionResourcesessions-producers-messageWaitTime-maxTime
 33.193 jMSConnectionResourcesessions-producers-messageWaitTime-minTime
 33.194 jMSConnectionResourcesessions-producers-messageWaitTime-totalTime
 33.201 jMSConnectionResourcesessions-consumers-origin
 33.211 jMSConnectionResourcesessions-consumers-messageCount-count
 33.221 jMSConnectionResourcesessions-consumers-pendingMessageCount-count
 33.231 jMSConnectionResourcesessions-consumers-expiredMessageCount-count
 33.241 jMSConnectionResourcesessions-consumers-messageWaitTime-count
 33.242 jMSConnectionResourcesessions-consumers-messageWaitTime-maxTime
 33.243 jMSConnectionResourcesessions-consumers-messageWaitTime-minTime
 33.244 jMSConnectionResourcesessions-consumers-messageWaitTime-totalTime
 33.251 jMSConnectionResourcesessionCount-count
 33.261 jMSConnectionResourceconnectionConsumerCount-count
 33.271 jMSConnectionResourceconnectionConsumers-origin
 33.281 jMSConnectionResourceconnectionConsumers-messageCount-count
 33.291 jMSConnectionResourceconnectionConsumers-pendingMessageCount-count
 33.301 jMSConnectionResourceconnectionConsumers-expiredMessageCount-count
 33.401 jMSConnectionResourceconnectionConsumers-messageWaitTime-count
 33.402 jMSConnectionResourceconnectionConsumers-messageWaitTime-maxTime
 33.403 jMSConnectionResourceconnectionConsumers-messageWaitTime-minTime
 33.404 jMSConnectionResourceconnectionConsumers-messageWaitTime-totalTime
 34.1 jMSConsumerResourceobjectName
 34.101 jMSConsumerResourceorigin

34.111 jMSConsumerResourcemessageCount-count
 34.121 jMSConsumerResourcependingMessageCount-count
 34.131 jMSConsumerResourceexpiredMessageCount-count
 34.141 jMSConsumerResourcemessageWaitTime-count
 34.142 jMSConsumerResourcemessageWaitTime-maxTime
 34.143 jMSConsumerResourcemessageWaitTime-minTime
 34.144 jMSConsumerResourcemessageWaitTime-totalTime
 34.151 jMSConsumerResourcesendTime-count
 34.152 jMSConsumerResourcesendTime-maxTime
 34.153 jMSConsumerResourcesendTime-minTime
 34.154 jMSConsumerResourcesendTime-totalTime
 35.1 jMSProducerResourceobjectName
 35.6 jMSProducerResourcedestination
 35.111 jMSProducerResourcemessageCount-count
 35.121 jMSProducerResourcependingMessageCount-count
 35.131 jMSProducerResourceexpiredMessageCount-count
 35.141 jMSProducerResourcemessageWaitTime-count
 35.142 jMSProducerResourcemessageWaitTime-maxTime
 35.143 jMSProducerResourcemessageWaitTime-minTime
 35.144 jMSProducerResourcemessageWaitTime-totalTime
 35.151 jMSProducerResourcesendTime-count
 35.152 jMSProducerResourcesendTime-maxTime
 35.153 jMSProducerResourcesendTime-minTime
 35.154 jMSProducerResourcesendTime-totalTime
 36.1 jMSSessionResourceobjectName
 36.2 jMSSessionResourcejMSEndPointConsumerNames
 36.101 jMSSessionResourcemessageCount-count
 36.111 jMSSessionResourcependingMessageCount-count
 36.121 jMSSessionResourceexpiredMessageCount-count
 36.131 jMSSessionResourcemessageWaitTime-count
 36.132 jMSSessionResourcemessageWaitTime-maxTime
 36.133 jMSSessionResourcemessageWaitTime-minTime
 36.134 jMSSessionResourcemessageWaitTime-totalTime
 36.141 jMSSessionResource durableSubscriptionCount-count
 36.151 jMSSessionResourceproducers-destination
 36.161 jMSSessionResourceproducers-messageCount-count
 36.171 jMSSessionResourceproducers-pendingMessageCount-count
 36.181 jMSSessionResourceproducers-expiredMessageCount-count
 36.191 jMSSessionResourceproducers-messageWaitTime-count
 36.192 jMSSessionResourceproducers-messageWaitTime-maxTime
 36.193 jMSSessionResourceproducers-messageWaitTime-minTime
 36.194 jMSSessionResourceproducers-messageWaitTime-totalTime
 36.201 jMSSessionResourceconsumers-origin
 36.211 jMSSessionResourceconsumers-messageCount-count
 36.221 jMSSessionResourceconsumers-pendingMessageCount-count
 36.231 jMSSessionResourceconsumers-expiredMessageCount-count
 36.241 jMSSessionResourceconsumers-messageWaitTime-count
 36.242 jMSSessionResourceconsumers-messageWaitTime-maxTime
 36.243 jMSSessionResourceconsumers-messageWaitTime-minTime
 36.244 jMSSessionResourceconsumers-messageWaitTime-totalTime
 36.251 jMSSessionResourcesendTime-count
 36.252 jMSSessionResourcesendTime-maxTime
 36.253 jMSSessionResourcesendTime-minTime
 36.254 jMSSessionResourcesendTime-totalTime
 36.261 jMSSessionResourcecommitCount-count
 36.271 jMSSessionResourcerollbackCount-count
 36.281 jMSSessionResourcetransactionCount-count
 41.1 eJBEngineMoobjectName
 41.2 eJBEngineMoblockThreadCount

53.1 threadPoolMoobjectName
 53.3 threadPoolMomin
 53.5 threadPoolMomax
 53.9 threadPoolMomaxIdleTime
 53.11 threadPoolMomaxQueue
 53.14 threadPoolMomaxThreadActiveTime
 53.15 threadPoolMonotifyThreshold
 53.16 threadPoolMorestartThreshold
 53.101 threadPoolMoactiveThreadCount-count
 53.111 threadPoolMoblockThreadCount-count
 53.121 threadPoolMoallThreadCount-count
 53.131 threadPoolMomaxThreadCount-count
 53.141 threadPoolMowaitQueueCount-count
 54.1 webEngineMoobjectName
 54.3 webEngineMoconfigInfo
 54.4 webEngineMoserverStatus
 54.8 webEngineMowebtConnectionGroup
 54.11 webEngineMocheckThreadPool
 54.13 webEngineMocheckClassReload
 54.15 webEngineMocheckSession
 54.101 webEngineMofreeMemory-count
 54.111 webEngineMototalMemory-count
 55.1 webListenerMoobjectName
 55.2 webListenerMothreadPools
 55.3 webListenerMotype
 55.4 webListenerMoport
 55.6 webListenerMoreadTimeout
 55.8 webListenerMoreconnectTimeout
 55.10 webListenerMopostdataReadTimeout
 61.1 jMSClientResourceobjectName
 61.4 jMSClientResourcejMSConnectionResourceNames
 61.101 jMSClientResourceconnectionCount-count
 62.1 jMSQueueConnectionFactoryResourceobjectName
 63.1 jMSQueueDestinationResourceobjectName
 63.2 jMSQueueDestinationResourceName
 63.3 jMSQueueDestinationResourceexportName
 63.4 jMSQueueDestinationResourceType
 63.8 jMSQueueDestinationResourcedestination
 63.9 jMSQueueDestinationResourcejMSConsumerResourceNames
 63.101 jMSQueueDestinationResourcemessageCount-count
 63.111 jMSQueueDestinationResourcependingMessageCount-count
 63.121 jMSQueueDestinationResourceexpiredMessageCount-count
 63.122 jMSQueueDestinationResourcemessageWaitTime-count
 63.123 jMSQueueDestinationResourcemessageWaitTime-maxTime
 63.124 jMSQueueDestinationResourcemessageWaitTime-minTime
 63.125 jMSQueueDestinationResourcemessageWaitTime-totalTime
 63.131 jMSQueueDestinationResourcesendTime-count
 63.132 jMSQueueDestinationResourcesendTime-maxTime
 63.133 jMSQueueDestinationResourcesendTime-minTime
 63.134 jMSQueueDestinationResourcesendTime-totalTime
 64.1 jMSDurableSubscriptionResourceobjectName
 64.3 jMSDurableSubscriptionResourceclientID
 64.5 jMSDurableSubscriptionResourceremainingMessages
 64.6 jMSDurableSubscriptionResourceselector
 65.1 jMSTopicConnectionFactoryResourceobjectName
 66.1 jMSTopicDestinationResourceobjectName
 66.2 jMSTopicDestinationResourceName
 66.3 jMSTopicDestinationResourceexportName
 66.4 jMSTopicDestinationResourceType


```

66.8 jMSTopicDestinationResourcedestination
66.9 jMSTopicDestinationResourcejMSConsumerResourceNames
66.101 jMSTopicDestinationResourcemessageCount-count
66.111 jMSTopicDestinationResourcependingMessageCount-count
66.121 jMSTopicDestinationResourceexpiredMessageCount-count
66.122 jMSTopicDestinationResourcemessageWaitTime-count
66.123 jMSTopicDestinationResourcemessageWaitTime-maxTime
66.124 jMSTopicDestinationResourcemessageWaitTime-minTime
66.125 jMSTopicDestinationResourcemessageWaitTime-totalTime
66.131 jMSTopicDestinationResourcesendTime-count
66.132 jMSTopicDestinationResourcesendTime-maxTime
66.133 jMSTopicDestinationResourcesendTime-minTime
66.134 jMSTopicDestinationResourcesendTime-totalTime
71.1 threadPoolObjectName
101.1 subjectMoobjectName
101.2 subjectMosubjectNames
102.1 securityDomainMoobjectName
102.2 securityDomainModomainName
102.3 securityDomainMopolicys
102.4 securityDomainMosubjects
103.1 policyMoobjectName
103.2 policyMopolicyIds
104.1 securityMoobjectName
104.2 securityMocurrentDomain
104.3 securityMosecurityDomains

```

A.3. TMAX-JEUS9.1-MIB.mib

```

TMAX-JEUS-MIB DEFINITIONS ::= BEGIN
IMPORTS

    enterprises, Counter
        FROM RFC1155-SMI
    OBJECT-TYPE
        FROM RFC-1212
    DisplayString
        FROM RFC1213-MIB
    TRAP-TYPE
        FROM RFC-1215;
tmax    OBJECT IDENTIFIER ::= { enterprises 14586 }

jeus    OBJECT IDENTIFIER ::= { tmax 100 }

-----

-- SNMP monitoring objects in each MBeans
-----

-----

-- j2EEDomain
-----

j2EEDomain OBJECT IDENTIFIER
    ::= { jeus 2 }

j2EEDomainobjectName    OBJECT-TYPE

```

```

SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "JMX-standard MBean object name"
::= { j2EEDomain 1 }
j2EEDomainservers OBJECT-TYPE
SYNTAX   SEQUENCE OF DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "JMX-standard object names of the J2EE Servers that this domain includes"
::= { j2EEDomain 2 }

-----
-- j2EEServer
-----

j2EEServer OBJECT IDENTIFIER
::= { jeus 3 }

j2EEServerobjectName OBJECT-TYPE
SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "JMX-standard MBean object name"
::= { j2EEServer 1 }
j2EEServerserverVersion OBJECT-TYPE
SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "the version of JEUS that is being used"
::= { j2EEServer 2 }
j2EEServerserverVendor OBJECT-TYPE
SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "the J2EE platform vendor of this J2EE Server"
::= { j2EEServer 3 }
j2EEServerjavaVMs OBJECT-TYPE
SYNTAX   SEQUENCE OF DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "JMX-standard object names of the JVMs on which J2EE Server is running"
::= { j2EEServer 4 }
j2EEServerdeployedObjects OBJECT-TYPE
SYNTAX   SEQUENCE OF DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "JMX-standard object names of the J2EE Modules that are deployed on this J2EE Server"
::= { j2EEServer 5 }
j2EEServerresources OBJECT-TYPE
SYNTAX   SEQUENCE OF DisplayString
ACCESS   read-only

```

```

STATUS mandatory
DESCRIPTION
    "JMX-standard object names of the J2EE Resources that can be used in this J2EE Server"
 ::= { j2EEServer 6 }
j2EEServerjeusServices OBJECT-TYPE
SYNTAX SEQUENCE OF DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""
 ::= { j2EEServer 8 }
j2EEServerengines OBJECT-TYPE
SYNTAX SEQUENCE OF DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""
 ::= { j2EEServer 9 }

-----
-- jVM
-----

jVM OBJECT IDENTIFIER
 ::= { jeus 4 }

jVMobjectName OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "JMX-standard MBean object name"
 ::= { jVM 1 }
jVMjavaVersion OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the system property value of java.version"
 ::= { jVM 2 }
jVMjavaVendor OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the system property value of java.vendor"
 ::= { jVM 3 }
jVMnode OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the host name and ip address of the machine on which this JVM is running"
 ::= { jVM 4 }
jVMoSName OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION

```

```

        "the system property value of os.name"
        ::= { jVM 6 }
jVMoSVersion OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the system property value of os.version"
        ::= { jVM 7 }
jVMallProperties OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the all system property values"
        ::= { jVM 8 }
jVMheapSize-upperBound OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
        ::= { jVM 101 }
jVMheapSize-lowerBound OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
        ::= { jVM 102 }
jVMheapSize-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
        ::= { jVM 103 }
jVMheapSize-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
        ::= { jVM 104 }
jVMheapSize-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
        ::= { jVM 105 }
jVMupTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
        ::= { jVM 111 }
jVMtotalSize-highWaterMark OBJECT-TYPE

```

```

SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

 ::= { jVM 121 }
jVMtotalSize-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { jVM 122 }
jVMtotalSize-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { jVM 123 }

-----
-- j2EEApplication
-----

j2EEApplication OBJECT IDENTIFIER
 ::= { jeus 6 }

j2EEApplicationobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { j2EEApplication 1 }
j2EEApplicationdeploymentDescriptor OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { j2EEApplication 2 }
j2EEApplicationserver OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { j2EEApplication 3 }
j2EEApplicationmodules OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { j2EEApplication 4 }
j2EEApplicationmoduleType OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only

```

```

STATUS mandatory
DESCRIPTION
    ""

::= { j2EEApplication 5 }
j2EEApplicationapplicationType OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

::= { j2EEApplication 6 }
j2EEApplicationjeusDeploymentPlan OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

::= { j2EEApplication 7 }
j2EEApplicationtargetModuleID OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

::= { j2EEApplication 8 }

-----
-- appClientModule
-----

appClientModule OBJECT IDENTIFIER
    ::= { jeus 8 }

appClientModuleobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { appClientModule 1 }
appClientModuledeploymentDescriptor OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { appClientModule 2 }
appClientModuleserver OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { appClientModule 3 }
appClientModulejavaVMs OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION

```

```

    ::= { appClientModule 4 }
appClientModuleapplicationType OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { appClientModule 5 }
appClientModulemoduleType OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { appClientModule 6 }
appClientModulejeusDeploymentPlan OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { appClientModule 7 }
appClientModuletargetModuleID OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { appClientModule 8 }

-----
-- eJBModule
-----

eJBModule OBJECT IDENTIFIER
    ::= { jeus 9 }

eJBModuleobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { eJBModule 1 }
eJBModuledeploymentDescriptor OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "XML deployment descriptor of this module"
    ::= { eJBModule 2 }
eJBModuleserver OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the name of the J2EE Server(JEUS container) on which this module is deployed"
    ::= { eJBModule 3 }

```

```

eJBModulejavaVms    OBJECT-TYPE
    SYNTAX  SEQUENCE OF DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "JMX-standard object names of the JVMs on which this module is running"
    ::= { eJBModule 4 }
eJBModuleejbs    OBJECT-TYPE
    SYNTAX  SEQUENCE OF DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "JMX-standard object names of the ejb components(EntityBean, StatefullSessionBean, or
StatelessSessionBean) that this EJB Module includes"
    ::= { eJBModule 5 }
eJBModuleejbCount    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        ""
    ::= { eJBModule 6 }
eJBModuleclientViewPath OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        ""
    ::= { eJBModule 7 }
eJBModulejeusDeploymentPlan OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        ""
    ::= { eJBModule 8 }
eJBModuletargetModuleID OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        ""
    ::= { eJBModule 9 }
eJBModulemoduleType OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        ""
    ::= { eJBModule 10 }
eJBModuleapplicationType    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        ""
    ::= { eJBModule 11 }

```

```

-- messageDrivenBean
-----

messageDrivenBean OBJECT IDENTIFIER
    ::= { jeus 11 }

messageDrivenBeanobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { messageDrivenBean 1 }

messageDrivenBeancreateCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { messageDrivenBean 101 }

messageDrivenBeanremoveCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { messageDrivenBean 111 }

messageDrivenBeanrequestCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { messageDrivenBean 121 }

messageDrivenBeancommittedCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { messageDrivenBean 131 }

messageDrivenBeanrolledbackCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { messageDrivenBean 141 }

messageDrivenBeantimeoutRolledbackCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { messageDrivenBean 151 }

messageDrivenBeanmessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory

```

```

DESCRIPTION
    ""

    ::= { messageDrivenBean 161 }
messageDrivenBeanactiveEJBBeanCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { messageDrivenBean 171 }
messageDrivenBeanactiveEJBBeanCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { messageDrivenBean 172 }
messageDrivenBeanactiveEJBBeanCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { messageDrivenBean 173 }
messageDrivenBeantotalEJBBeanCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { messageDrivenBean 181 }
messageDrivenBeantotalEJBBeanCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { messageDrivenBean 182 }
messageDrivenBeantotalEJBBeanCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { messageDrivenBean 183 }

-----
-- entityBean
-----

entityBean OBJECT IDENTIFIER
    ::= { jeus 12 }

entityBeanobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"

```

```

 ::= { entityBean 1 }
entityBeancreateCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the beans that is created by create() method"
    ::= { entityBean 101 }
entityBeanremoveCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the beans that is removed by remove() method"
    ::= { entityBean 111 }
entityBeanrequestCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the requests on this bean"
    ::= { entityBean 121 }
entityBeancommittedCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that is committed"
    ::= { entityBean 131 }
entityBeanrolledbackCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that is rolledback"
    ::= { entityBean 141 }
entityBeantimeoutRolledbackCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that is rolledback by timeout"
    ::= { entityBean 151 }
entityBeanreadyCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest number of the bean instances that are READY state"
    ::= { entityBean 161 }
entityBeanreadyCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the bean instances that are READY state"
    ::= { entityBean 162 }
entityBeanreadyCount-current OBJECT-TYPE
    SYNTAX DisplayString

```

```

ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the current number of the bean instances that are READY state"
::= { entityBean 163 }
entityBeanpooledCount-highWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the highest number of the bean instances that are POOLED state"
::= { entityBean 171 }
entityBeanpooledCount-lowWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the lowest number of the bean instances that are POOLED state"
::= { entityBean 172 }
entityBeanpooledCount-current OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the current number of the bean instances that are POOLED state"
::= { entityBean 173 }
entityBeanautoRemovedEJBObjectCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the bean instances that are removed automatically when they are passivated"
::= { entityBean 181 }
entityBeantotalEJBBeanCount-highWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the highest number of the bean instances that are in the bean pool of this bean"
::= { entityBean 191 }
entityBeantotalEJBBeanCount-lowWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the lowest number of the bean instances that are in the bean pool of this bean"
::= { entityBean 192 }
entityBeantotalEJBBeanCount-current OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the current number of the bean instances that are in the bean pool of this bean"
::= { entityBean 193 }
entityBeanactiveEJBBeanCount-highWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION

```

```

        "the highest number of the bean instances that are ACTIVE state"
        ::= { entityBean 201 }
entityBeanactiveEJBBeanCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the bean instances that are ACTIVE state"
        ::= { entityBean 202 }
entityBeanactiveEJBBeanCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the bean instances that are ACTIVE state"
        ::= { entityBean 203 }
entityBeantotalThreadCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest number of the threads that are in thread pool of this bean"
        ::= { entityBean 211 }
entityBeantotalThreadCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the threads that are in thread pool of this bean"
        ::= { entityBean 212 }
entityBeantotalThreadCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the threads that are in thread pool of this bean"
        ::= { entityBean 213 }
entityBeanactiveThreadCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest number of the threads that are being used in thread pool of this bean"
        ::= { entityBean 221 }
entityBeanactiveThreadCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the threads that are being used in thread pool of this bean"
        ::= { entityBean 222 }
entityBeanactiveThreadCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the threads that are being used in thread pool of this bean"
        ::= { entityBean 223 }
entityBeantotalEJBObjectCount-highWaterMark OBJECT-TYPE

```

```

SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the highest number of the objects that are in connection pool of this bean"
::= { entityBean 231 }
entityBeantotalEJBObjectCount-lowWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the lowest number of the objects that are in connection pool of this bean"
::= { entityBean 232 }
entityBeantotalEJBObjectCount-current OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the current number of the objects that are in connection pool of this bean"
::= { entityBean 233 }
entityBeanactiveEJBObjectCount-highWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the highest number of the objects that are being used in connection pool of this bean"
::= { entityBean 241 }
entityBeanactiveEJBObjectCount-lowWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the lowest number of the objects that are being used in connection pool of this bean"
::= { entityBean 242 }
entityBeanactiveEJBObjectCount-current OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the current number of the objects that are being used in connection pool of this bean"
::= { entityBean 243 }
entityBeanpassiveCount-highWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the highest number of the bean instances that are passivated"
::= { entityBean 251 }
entityBeanpassiveCount-lowWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the lowest number of the bean instances that are passivated"
::= { entityBean 252 }
entityBeanpassiveCount-current OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory

```

```

DESCRIPTION
    "the current number of the bean instances that are passivated"
    ::= { entityBean 253 }

-----
-- statefulSessionBean
-----

statefulSessionBean OBJECT IDENTIFIER
    ::= { jeus 14 }

statefulSessionBeanobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { statefulSessionBean 1 }
statefulSessionBeancreateCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the beans that is created by create() method"
    ::= { statefulSessionBean 101 }
statefulSessionBeanremoveCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the beans that is removed by remove() method"
    ::= { statefulSessionBean 111 }
statefulSessionBeanrequestCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the requests on this bean"
    ::= { statefulSessionBean 121 }
statefulSessionBeancommittedCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that is committed"
    ::= { statefulSessionBean 131 }
statefulSessionBeanrolledbackCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that is rollbacked"
    ::= { statefulSessionBean 141 }
statefulSessionBeantimeoutRolledbackCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that is rollbacked by timeout"

```

```

::= { statefulSessionBean 151 }
statefulSessionBeanmethodReadyCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest number of the beans that are METHOD-READY state"
::= { statefulSessionBean 161 }
statefulSessionBeanmethodReadyCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the beans that are METHOD-READY state"
::= { statefulSessionBean 162 }
statefulSessionBeanmethodReadyCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the beans that are METHOD-READY state"
::= { statefulSessionBean 163 }
statefulSessionBeanpassiveCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest number of the bean instances that are passivated"
::= { statefulSessionBean 171 }
statefulSessionBeanpassiveCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the bean instances that are passivated"
::= { statefulSessionBean 172 }
statefulSessionBeanpassiveCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the bean instances that are passivated"
::= { statefulSessionBean 173 }
statefulSessionBeanautoRemovedEJBObjectCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the bean instances that are removed automatically when they are passivated"
::= { statefulSessionBean 181 }
statefulSessionBeantotalEJBBeanCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest number of the bean instances that are in the bean pool of this bean"
::= { statefulSessionBean 191 }
statefulSessionBeantotalEJBBeanCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString

```



```

ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the lowest number of the bean instances that are in the bean pool of this bean"
::= { statefulSessionBean 192 }
statefulSessionBeantotalEJBBeanCount-current OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the current number of the bean instances that are in the bean pool of this bean"
::= { statefulSessionBean 193 }
statefulSessionBeanactiveEJBBeanCount-highWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the highest number of the bean instances that are ACTIVE state"
::= { statefulSessionBean 201 }
statefulSessionBeanactiveEJBBeanCount-lowWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the lowest number of the bean instances that are ACTIVE state"
::= { statefulSessionBean 202 }
statefulSessionBeanactiveEJBBeanCount-current OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the current number of the bean instances that are ACTIVE state"
::= { statefulSessionBean 203 }
statefulSessionBeantotalThreadCount-highWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the highest number of the threads that are in thread pool of this bean"
::= { statefulSessionBean 211 }
statefulSessionBeantotalThreadCount-lowWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the lowest number of the threads that are in thread pool of this bean"
::= { statefulSessionBean 212 }
statefulSessionBeantotalThreadCount-current OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the current number of the threads that are in thread pool of this bean"
::= { statefulSessionBean 213 }
statefulSessionBeanactiveThreadCount-highWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION

```

```

        "the highest number of the threads that are being used in thread pool of this bean"
        ::= { statefulSessionBean 221 }
statefulSessionBeanactiveThreadCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the threads that are being used in thread pool of this bean"
        ::= { statefulSessionBean 222 }
statefulSessionBeanactiveThreadCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the threads that are being used in thread pool of this bean"
        ::= { statefulSessionBean 223 }
statefulSessionBeantotalEJBObjectCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest number of the objects that are in connection pool of this bean"
        ::= { statefulSessionBean 231 }
statefulSessionBeantotalEJBObjectCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the objects that are in connection pool of this bean"
        ::= { statefulSessionBean 232 }
statefulSessionBeantotalEJBObjectCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the objects that are in connection pool of this bean"
        ::= { statefulSessionBean 233 }
statefulSessionBeanactiveEJBObjectCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest number of the objects that are being used in connection pool of this bean"
        ::= { statefulSessionBean 241 }
statefulSessionBeanactiveEJBObjectCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the objects that are being used in connection pool of this bean"
        ::= { statefulSessionBean 242 }
statefulSessionBeanactiveEJBObjectCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the objects that are being used in connection pool of this bean"
        ::= { statefulSessionBean 243 }

```

```

-----
-- statelessSessionBean
-----

statelessSessionBean OBJECT IDENTIFIER
    ::= { jeus 15 }

statelessSessionBeanobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { statelessSessionBean 1 }

statelessSessionBeancreateCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the beans that is created by create() method"
    ::= { statelessSessionBean 101 }

statelessSessionBeanremoveCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the beans that is removed by remove() method"
    ::= { statelessSessionBean 111 }

statelessSessionBeanrequestCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the requests on this bean"
    ::= { statelessSessionBean 121 }

statelessSessionBeancommittedCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that is committed"
    ::= { statelessSessionBean 131 }

statelessSessionBeanrolledbackCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that is rollbacked"
    ::= { statelessSessionBean 141 }

statelessSessionBeantimeoutRolledbackCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that is rollbacked by timeout"
    ::= { statelessSessionBean 151 }

statelessSessionBeanmethodReadyCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only

```

```

STATUS mandatory
DESCRIPTION
    "the highest number of the beans that are METHOD-READY state"
::= { statelessSessionBean 161 }
statelessSessionBeanmethodReadyCount-lowWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the lowest number of the beans that are METHOD-READY state"
::= { statelessSessionBean 162 }
statelessSessionBeanmethodReadyCount-current OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the current number of the beans that are METHOD-READY state"
::= { statelessSessionBean 163 }
statelessSessionBeantotalEJBBeanCount-highWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the highest number of the bean instances that are in the bean pool of this bean"
::= { statelessSessionBean 171 }
statelessSessionBeantotalEJBBeanCount-lowWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the lowest number of the bean instances that are in the bean pool of this bean"
::= { statelessSessionBean 172 }
statelessSessionBeantotalEJBBeanCount-current OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the current number of the bean instances that are in the bean pool of this bean"
::= { statelessSessionBean 173 }
statelessSessionBeanactiveEJBBeanCount-highWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the highest number of the bean instances that are ACTIVE state"
::= { statelessSessionBean 181 }
statelessSessionBeanactiveEJBBeanCount-lowWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the lowest number of the bean instances that are ACTIVE state"
::= { statelessSessionBean 182 }
statelessSessionBeanactiveEJBBeanCount-current OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the current number of the bean instances that are ACTIVE state"

```

```

        ::= { statelessSessionBean 183 }
statelessSessionBeantotalThreadCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest number of the threads that are in thread pool of this bean"
        ::= { statelessSessionBean 191 }
statelessSessionBeantotalThreadCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the threads that are in thread pool of this bean"
        ::= { statelessSessionBean 192 }
statelessSessionBeantotalThreadCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the threads that are in thread pool of this bean"
        ::= { statelessSessionBean 193 }
statelessSessionBeanactiveThreadCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest number of the threads that are being used in thread pool of this bean"
        ::= { statelessSessionBean 201 }
statelessSessionBeanactiveThreadCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the threads that are being used in thread pool of this bean"
        ::= { statelessSessionBean 202 }
statelessSessionBeanactiveThreadCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the threads that are being used in thread pool of this bean"
        ::= { statelessSessionBean 203 }

-----
-- webModule
-----

webModule OBJECT IDENTIFIER
    ::= { jeus 16 }

webModuleobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { webModule 1 }
webModuledeploymentDescriptor OBJECT-TYPE

```

```

SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "XML deployment descriptor of this module"
::= { webModule 2 }
webModuleserver OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        "the name of the J2EE Server(JEUS container) on which this module is deployed"
    ::= { webModule 3 }
webModulejavaVMs OBJECT-TYPE
    SYNTAX   SEQUENCE OF DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        "JMX-standard object names of the JVMs on which this module is running"
    ::= { webModule 4 }
webModuleservlets OBJECT-TYPE
    SYNTAX   SEQUENCE OF DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        "JMX-standard object names of the Servlets that this Web Module includes"
    ::= { webModule 5 }
webModulerealDocBase OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        ""
    ::= { webModule 8 }
webModulejeusDeploymentPlan OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        ""
    ::= { webModule 9 }
webModuletargetModuleID OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        ""
    ::= { webModule 10 }
webModulemoduleType OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        ""
    ::= { webModule 11 }
webModuleapplicationType OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory

```

```

DESCRIPTION
""

 ::= { webModule 12 }
webModuleautoReload OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { webModule 13 }
webModulerequestCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the requests on this web module"

 ::= { webModule 101 }
webModuleallSessionsSize-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the all sessions that is registered on the session server that this Web Module
is using"

 ::= { webModule 111 }
webModuleactiveSessionsSize-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the active sessions that is registered on the session server that this Web
Module is using"

 ::= { webModule 121 }
webModulepassivateSessionsSize-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the passivated sessions that is registered on the session server that this Web
Module is using"

 ::= { webModule 131 }
webModulelocalSessionsSize-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the local sessions that is not related to the session server that this Web
Module is using"

 ::= { webModule 141 }
webModuleprocessingTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { webModule 151 }

-----
-- servlet

```

```

-----
servlet OBJECT IDENTIFIER
    ::= { jeus 17 }

servletObjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { servlet 1 }

servletServletInfo OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the general information of the servlets that is deployed"
    ::= { servlet 2 }

servletAverageExecutionTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the average execution time of the servlets that is deplyed in milliseconds"
    ::= { servlet 3 }

servletServiceTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of times that Servlet serves"
    ::= { servlet 101 }

servletServiceTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the longest time that Servlet serves"
    ::= { servlet 102 }

servletServiceTime-minTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the shortest time that Servlet serves"
    ::= { servlet 103 }

servletServiceTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the total time that Servlet serves"
    ::= { servlet 104 }

```

```

-----
-- resourceAdapterModule
-----

```



```

resourceAdapterModule OBJECT IDENTIFIER
    ::= { jeus 18 }

resourceAdapterModuleobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { resourceAdapterModule 1 }
resourceAdapterModuledeploymentDescriptor OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { resourceAdapterModule 2 }
resourceAdapterModuleserver OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { resourceAdapterModule 3 }
resourceAdapterModulejavaVMs OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { resourceAdapterModule 4 }
resourceAdapterModulemoduleType OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { resourceAdapterModule 6 }
resourceAdapterModuleapplicationType OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { resourceAdapterModule 7 }
resourceAdapterModulejeusDeploymentPlan OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { resourceAdapterModule 8 }
resourceAdapterModuletargetModuleID OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { resourceAdapterModule 9 }

```

```

-----
-- resourceAdapter
-----

resourceAdapter OBJECT IDENTIFIER
    ::= { jeus 19 }

resourceAdapterObjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { resourceAdapter 1 }

-----
-- javaMailResource
-----

javaMailResource OBJECT IDENTIFIER
    ::= { jeus 21 }

javaMailResourceObjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { javaMailResource 1 }
javaMailResourceproperty OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { javaMailResource 2 }

-----
-- jCAResource
-----

jCAResource OBJECT IDENTIFIER
    ::= { jeus 22 }

jCAResourceObjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jCAResource 1 }

-----
-- jCAConnectionFactory
-----

jCAConnectionFactory OBJECT IDENTIFIER
    ::= { jeus 23 }

```

```

jCAConnectionFactoryobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jCAConnectionFactory 1 }

-----
-- jCManagedConnectionFactory
-----

jCManagedConnectionFactory OBJECT IDENTIFIER
    ::= { jeus 24 }

jCManagedConnectionFactoryobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jCManagedConnectionFactory 1 }

-----
-- JDBCResource
-----

JDBCResource OBJECT IDENTIFIER
    ::= { jeus 25 }

JDBCResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { JDBCResource 1 }
JDBCResourcejdbcDataSources OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard object names of JDBC Data Sources that is related to this JDBC Resource"
    ::= { JDBCResource 2 }
JDBCResourceconnectionPools-createCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the connected connections in the connection pool of each JDBC Data Sources
that is related to this JDBC Resource"
    ::= { JDBCResource 101 }
JDBCResourceconnectionPools-closeCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the disconnected connections in the connection pool of each JDBC Data Sources

```

```

that is related to this JDBC Resource"
    ::= { jdbcResource 111 }
jdbcResourceconnectionPools-poolSize-upperBound OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the max value that is configured to be upper bound of the pool size of the connection pool
of each JDBC Data Sources that is related to this JDBC Resource"
    ::= { jdbcResource 121 }
jdbcResourceconnectionPools-poolSize-lowerBound OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the min value that is configured to be lower bound of the pool size of the connection pool
of each JDBC Data Sources that is related to this JDBC Resource"
    ::= { jdbcResource 122 }
jdbcResourceconnectionPools-poolSize-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest value of the pool size of the connection pool of each JDBC Data Sources that is
related to this JDBC Resource"
    ::= { jdbcResource 123 }
jdbcResourceconnectionPools-poolSize-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest value of the pool size of the connection pool of each JDBC Data Sources that is
related to this JDBC Resource"
    ::= { jdbcResource 124 }
jdbcResourceconnectionPools-poolSize-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current value of the pool size of the connection pool of each JDBC Data Sources that is
related to this JDBC Resource"
    ::= { jdbcResource 125 }
jdbcResourceconnectionPools-freePoolSize-upperBound OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the upper bound of the free connections in the connection pool of each JDBC Data Sources
that is related to this JDBC Resource (It is equal to the connectionPools-PoolSize-UpperBound)"
    ::= { jdbcResource 131 }
jdbcResourceconnectionPools-freePoolSize-lowerBound OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lower bound of the free connections in the connection pool of each JDBC Data Sources
that is related to this JDBC Resource (It is set to be 0)"
    ::= { jdbcResource 132 }
jdbcResourceconnectionPools-freePoolSize-highWaterMark OBJECT-TYPE

```

```

SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the highest number of the free connections in the connection pool of each JDBC Data Source
that is related to this JDBC Resource"
::= { jdbcResource 133 }
jdbcResourceconnectionPools-freePoolSize-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the free connections in the connection pool of each JDBC Data Source
that is related to this JDBC Resource"
        ::= { jdbcResource 134 }
jdbcResourceconnectionPools-freePoolSize-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the free connections in the connection pool of each JDBC Data Source
that is related to this JDBC Resource"
        ::= { jdbcResource 135 }
jdbcResourceconnectionPools-waitingThreadCount-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest number of the threads, which are waiting to get connections from the connection
pool of each JDBC Data Sources that is related to this JDBC Resource"
        ::= { jdbcResource 141 }
jdbcResourceconnectionPools-waitingThreadCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest number of the threads, which are waiting to get connections from the connection
pool of each JDBC Data Sources that is related to this JDBC Resource"
        ::= { jdbcResource 142 }
jdbcResourceconnectionPools-waitingThreadCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current number of the threads, which are waiting to get connections from the connection
pool of each JDBC Data Sources that is related to this JDBC Resource"
        ::= { jdbcResource 143 }
jdbcResourceconnectionPools-waitTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the waiting time to get connection available in connection pool"
        ::= { jdbcResource 161 }
jdbcResourceconnectionPools-waitTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION

```

```

        "the maximum waiting time to get connection available in connection pool"
        ::= { jdbcResource 162 }
jdbcResourceconnectionPools-waitTime-minTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the minimum waiting time to get connection available in connection pool"
        ::= { jdbcResource 163 }
jdbcResourceconnectionPools-waitTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the total waiting time to get connection available in connection pool"
        ::= { jdbcResource 164 }
jdbcResourceconnectionPools-useTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the time to use connection"
        ::= { jdbcResource 171 }
jdbcResourceconnectionPools-useTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the maximum time to use connection"
        ::= { jdbcResource 172 }
jdbcResourceconnectionPools-useTime-minTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the minimum time to use connection"
        ::= { jdbcResource 173 }
jdbcResourceconnectionPools-useTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the total time to use connection"
        ::= { jdbcResource 174 }
jdbcResourceconnectionPools-jdbcDataSource OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard object name of JDBC datasource of each connectios in this connection pool"
        ::= { jdbcResource 181 }

-----
-- jdbcDataSource
-----

jdbcDataSource OBJECT IDENTIFIER
    ::= { jeus 26 }

```

```

jDBCDataSourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { jDBCDataSource 1 }
jDBCDataSourcejdbcDriver OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard object name of the JDBC Driver that is related to this JDBC Data Source"
    ::= { jDBCDataSource 2 }
jDBCDataSourcecreateCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the connected connections to this JDBC Data Source"
    ::= { jDBCDataSource 101 }
jDBCDataSourcecloseCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the disconnected connections to this JDBC Data Source"
    ::= { jDBCDataSource 111 }
jDBCDataSourcepoolSize-upperBound OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the max value that is configured to be upper bound of the pool size of the connection pool
of this JDBC Data Source"
    ::= { jDBCDataSource 121 }
jDBCDataSourcepoolSize-lowerBound OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the min value that is configured to be lower bound of the pool size of the connection pool
of this JDBC Data Source"
    ::= { jDBCDataSource 122 }
jDBCDataSourcepoolSize-highWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the highest value of the pool size of the connection pool of this JDBC Data Source"
    ::= { jDBCDataSource 123 }
jDBCDataSourcepoolSize-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the lowest value of the pool size of the connection pool of this JDBC Data Source"
    ::= { jDBCDataSource 124 }
jDBCDataSourcepoolSize-current OBJECT-TYPE

```

```

SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "the current value of the pool size of the connection pool of this JDBC Data Source"
::= { jdbcDataSource 125 }
jdbcDataSourcefreePoolSize-upperBound   OBJECT-TYPE
SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "the upper bound of the free connections in the connection pool of this JDBC Data Source (It
is equal to the poolSize-UpperBound)"
::= { jdbcDataSource 131 }
jdbcDataSourcefreePoolSize-lowerBound   OBJECT-TYPE
SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "the lower bound of the free connections in the connection pool of this JDBC Data Source (It
is set to be 0)"
::= { jdbcDataSource 132 }
jdbcDataSourcefreePoolSize-highWaterMark   OBJECT-TYPE
SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "the highest number of the free connections in the connection pool of this JDBC Data Source"
::= { jdbcDataSource 133 }
jdbcDataSourcefreePoolSize-lowWaterMark   OBJECT-TYPE
SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "the lowest number of the free connections in the connection pool of this JDBC Data Source"
::= { jdbcDataSource 134 }
jdbcDataSourcefreePoolSize-current   OBJECT-TYPE
SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "the current number of the free connections in the connection pool of this JDBC Data Source"
::= { jdbcDataSource 135 }
jdbcDataSourcewaitingThreadCount-highWaterMark   OBJECT-TYPE
SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "the highest number of the threads, which are waiting to get connections from the connection
pool of this JDBC Data Source"
::= { jdbcDataSource 141 }
jdbcDataSourcewaitingThreadCount-lowWaterMark   OBJECT-TYPE
SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    "the lowest number of the threads, which are waiting to get connections from the connection
pool of this JDBC Data Source"
::= { jdbcDataSource 142 }

```



```

jDBCDataSourcewaitingThreadCount-current    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the current number of the threads, which are waiting to get connections from the connection
pool of this JDBC Data Source"
    ::= { jdbcDataSource 143 }
jDBCDataSourcewaitTime-count    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the total number of requests that are waiting to get connections from the connection pool of
this JDBC Data Source"
    ::= { jdbcDataSource 161 }
jDBCDataSourcewaitTime-maxTime    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the longest time for waiting to get connections from the connection pool of this JDBC Data
Source"
    ::= { jdbcDataSource 162 }
jDBCDataSourcewaitTime-minTime    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the shortest time for waiting to get connections from the connection pool of this JDBC Data
Source"
    ::= { jdbcDataSource 163 }
jDBCDataSourcewaitTime-totalTime    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the total time for waiting to get connections from the connection pool of this JDBC Data
Source"
    ::= { jdbcDataSource 164 }
jDBCDataSourceuseTime-count    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the total number of requests that use connections from the connection pool of this JDBC Data
Source"
    ::= { jdbcDataSource 171 }
jDBCDataSourceuseTime-maxTime    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the longest time for using connections from the connection pool of this JDBC Data Source"
    ::= { jdbcDataSource 172 }
jDBCDataSourceuseTime-minTime    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory

```

```

DESCRIPTION
    "the shortest time for using connections from the connection pool of this JDBC Data Source"
    ::= { jdbcDataSource 173 }
jdbcDataSourceuseTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the total time for using connections from the connection pool of this JDBC Data Source"
        ::= { jdbcDataSource 174 }

-----
-- JDBCDriver
-----

JDBCdriver OBJECT IDENTIFIER
    ::= { jeus 27 }

JDBCdriverobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
        ::= { JDBCdriver 1 }

-----
-- JMSResource
-----

JMSResource OBJECT IDENTIFIER
    ::= { jeus 28 }

JMSResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
        ::= { JMSResource 1 }
JMSResourceJMSConnectionFactoryResourceNames OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the list of the names of JMS connection factory resources that are belong to this JMS
Resource"
    ::= { JMSResource 5 }
JMSResourceJMSDestinationResourceNames OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the list of the names of JMS destination resources that are belong to this JMS Resource"
    ::= { JMSResource 6 }

-----
-- JNDIResource
-----

```

```

jNDIResource OBJECT IDENTIFIER
    ::= { jeus 29 }

jNDIResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jNDIResource 1 }

-----
-- jTAResource
-----

jTAResource OBJECT IDENTIFIER
    ::= { jeus 30 }

jTAResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { jTAResource 1 }
jTAResourceactiveTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jTAResource 3 }
jTAResourceprepareTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jTAResource 4 }
jTAResourcepreparedTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jTAResource 5 }
jTAResourcecommitTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jTAResource 6 }
jTAResourcerecoveryTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION

```

```

""
 ::= { jTAResource 7 }
jTAResourceIncompleteTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
 ::= { jTAResource 8 }
jTAResourceActiveCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that are active"
 ::= { jTAResource 101 }
jTAResourceCommittedCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that are committed"
 ::= { jTAResource 111 }
jTAResourceRolledbackCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that are rolledback"
 ::= { jTAResource 121 }
jTAResourceTimeoutCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that cause time-out"
 ::= { jTAResource 131 }
jTAResourceTimeoutRolledbackCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that is rolledback by timeout"
 ::= { jTAResource 141 }
jTAResourceActiveTimeoutCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that cause active time-out"
 ::= { jTAResource 151 }
jTAResourcePrepareTimeoutCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that cause time-out for prepare message"
 ::= { jTAResource 161 }
jTAResourcePreparedTimeoutCount-count OBJECT-TYPE

```

```

SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the transactions that cause time-out for the global design message originated
from the root coordinator"
 ::= { jTAResource 171 }
jTAResourcecommitTimeoutCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the transactions that cause time-out for the root coordinator to receive the
response from the sub-coordinator"
        ::= { jTAResource 181 }
jTAResourceexecutionTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the requests that execute transactions"
        ::= { jTAResource 201 }
jTAResourceexecutionTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the longest execution time for all transactions"
        ::= { jTAResource 202 }
jTAResourceexecutionTime-minTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the shortest execution time for all transactions"
        ::= { jTAResource 203 }
jTAResourceexecutionTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the total execution time for all transactions"
        ::= { jTAResource 204 }

-----
-- uRLResource
-----

uRLResource OBJECT IDENTIFIER
    ::= { jeus 32 }

uRLResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { uRLResource 1 }
uRLResourceuRLInfo OBJECT-TYPE

```

```

SYNTAX   DisplayString
ACCESS   read-only
STATUS   mandatory
DESCRIPTION
    ""
 ::= {   uRLResource 2   }

-----
-- jMSConnectionResource
-----

jMSConnectionResource OBJECT IDENTIFIER
 ::= {   jeus 33   }

jMSConnectionResourceobjectName OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= {   jMSConnectionResource 1   }
jMSConnectionResourcejMSSessionResourceNames OBJECT-TYPE
    SYNTAX   SEQUENCE OF DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        "JMX-standard object names of the session resource that is created by this connection"
    ::= {   jMSConnectionResource 2   }
jMSConnectionResourcesessions-messageCount-count OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        "the number of the messages that are processed in each sessions"
    ::= {   jMSConnectionResource 101   }
jMSConnectionResourcesessions-pendingMessageCount-count OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        "the number of the messages that reside in this session without acknowledgement"
    ::= {   jMSConnectionResource 111   }
jMSConnectionResourcesessions-expiredMessageCount-count OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        "the number of the messages that are expired in each sessions"
    ::= {   jMSConnectionResource 121   }
jMSConnectionResourcesessions-messageWaitTime-count OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        "the period of time between when it creates message and when it delivers message"
    ::= {   jMSConnectionResource 131   }
jMSConnectionResourcesessions-messageWaitTime-maxTime OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only

```

```

STATUS mandatory
DESCRIPTION
    "the maximum period of time between when it creates message and when it delivers message"
::= { jMSConnectionResource 132 }
jMSConnectionResourcesessions-messageWaitTime-minTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the minimum period of time between when it creates message and when it delivers message"
::= { jMSConnectionResource 133 }
jMSConnectionResourcesessions-messageWaitTime-totalTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the total period of time between when it creates message and when it delivers message"
::= { jMSConnectionResource 134 }
jMSConnectionResourcesessions-durableSubscriptionCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the durable subscribers that are created in each sessions"
::= { jMSConnectionResource 141 }
jMSConnectionResourcesessions-producers-destination OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "name of the destination to which each producers send messages"
::= { jMSConnectionResource 151 }
jMSConnectionResourcesessions-producers-messageCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that are processed in each producers"
::= { jMSConnectionResource 161 }
jMSConnectionResourcesessions-producers-pendingMessageCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that reside in each producers without acknowledgement"
::= { jMSConnectionResource 171 }
jMSConnectionResourcesessions-producers-expiredMessageCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that are expired in each producers"
::= { jMSConnectionResource 181 }
jMSConnectionResourcesessions-producers-messageWaitTime-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the period of time between when it creates message and when it delivers message"

```

```

::= { jMSConnectionResource 191 }
jMSConnectionResourcesessions-producers-messageWaitTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the maximum period of time between when it creates message and when it delivers message"
::= { jMSConnectionResource 192 }
jMSConnectionResourcesessions-producers-messageWaitTime-minTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the minimum period of time between when it creates message and when it delivers message"
::= { jMSConnectionResource 193 }
jMSConnectionResourcesessions-producers-messageWaitTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the total period of time between when it creates message and when it delivers message"
::= { jMSConnectionResource 194 }
jMSConnectionResourcesessions-consumers-origin OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "name of the destination that each consumers connect to"
::= { jMSConnectionResource 201 }
jMSConnectionResourcesessions-consumers-messageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that are processed in each consumers"
::= { jMSConnectionResource 211 }
jMSConnectionResourcesessions-consumers-pendingMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that reside in each consumers without acknowledgement"
::= { jMSConnectionResource 221 }
jMSConnectionResourcesessions-consumers-expiredMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that are expired in each consumers"
::= { jMSConnectionResource 231 }
jMSConnectionResourcesessions-consumers-messageWaitTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the period of time between when it creates message and when it delivers message"
::= { jMSConnectionResource 241 }
jMSConnectionResourcesessions-consumers-messageWaitTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString

```



```

ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "the maximum period of time between when it creates message and when it delivers message"
::= { jMSConnectionResource 242 }
jMSConnectionResourcesessions-consumers-messageWaitTime-minTime OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "the minimum period of time between when it creates message and when it delivers message"
::= { jMSConnectionResource 243 }
jMSConnectionResourcesessions-consumers-messageWaitTime-totalTime OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "the total period of time between when it creates message and when it delivers message"
::= { jMSConnectionResource 244 }
jMSConnectionResourcecount-count OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "the number of the sessions that are created by this connection"
::= { jMSConnectionResource 251 }
jMSConnectionResourceconnectionConsumerCount-count OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""
::= { jMSConnectionResource 261 }
jMSConnectionResourceconnectionConsumers-origin OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""
::= { jMSConnectionResource 271 }
jMSConnectionResourceconnectionConsumers-messageCount-count OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""
::= { jMSConnectionResource 281 }
jMSConnectionResourceconnectionConsumers-pendingMessageCount-count OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""
::= { jMSConnectionResource 291 }
jMSConnectionResourceconnectionConsumers-expiredMessageCount-count OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION

```

```

""
 ::= { jMSConnectionResource 301 }
jMSConnectionResourceconnectionConsumers-messageWaitTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
 ::= { jMSConnectionResource 401 }
jMSConnectionResourceconnectionConsumers-messageWaitTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
 ::= { jMSConnectionResource 402 }
jMSConnectionResourceconnectionConsumers-messageWaitTime-minTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
 ::= { jMSConnectionResource 403 }
jMSConnectionResourceconnectionConsumers-messageWaitTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
 ::= { jMSConnectionResource 404 }

-----
-- jMSConsumerResource
-----

jMSConsumerResource OBJECT IDENTIFIER
 ::= { jeus 34 }

jMSConsumerResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
 ::= { jMSConsumerResource 1 }
jMSConsumerResourceorigin OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "name of the destination that consumer connects to"
 ::= { jMSConsumerResource 101 }
jMSConsumerResourcemessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that are processed in this consumer"
 ::= { jMSConsumerResource 111 }

```

```

jMSConsumerResourcependingMessageCount-count    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the number of the messages that reside in this consumer without acknowledgement"
    ::= { jMSConsumerResource 121 }
jMSConsumerResourceexpiredMessageCount-count    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the number of the messages that are expired in this consumer"
    ::= { jMSConsumerResource 131 }
jMSConsumerResourcemessageWaitTime-count    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the period of time between when it creates message and when it delivers message"
    ::= { jMSConsumerResource 141 }
jMSConsumerResourcemessageWaitTime-maxTime    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the maximum period of time between when it creates message and when it delivers message"
    ::= { jMSConsumerResource 142 }
jMSConsumerResourcemessageWaitTime-minTime    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the minimum period of time between when it creates message and when it delivers message"
    ::= { jMSConsumerResource 143 }
jMSConsumerResourcemessageWaitTime-totalTime    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the total period of time between when it creates message and when it delivers message"
    ::= { jMSConsumerResource 144 }
jMSConsumerResourcesendTime-count    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the period of time to delivers messages"
    ::= { jMSConsumerResource 151 }
jMSConsumerResourcesendTime-maxTime    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the maximum period of time to delivers messages"
    ::= { jMSConsumerResource 152 }
jMSConsumerResourcesendTime-minTime    OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only

```

```

STATUS mandatory
DESCRIPTION
    "the minimum period of time to delivers messages"
::= { jMSConsumerResource 153 }
jMSConsumerResourcesendTime-totalTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the total period of time to delivers messages"
::= { jMSConsumerResource 154 }

-----
-- jMSProducerResource
-----

jMSProducerResource OBJECT IDENTIFIER
::= { jeus 35 }

jMSProducerResourceobjectName OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "JMX-standard MBean object name"
::= { jMSProducerResource 1 }
jMSProducerResourcedestination OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "name of the destination to which this producer sends messages"
::= { jMSProducerResource 6 }
jMSProducerResourcemessageCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that are processed in this producer"
::= { jMSProducerResource 111 }
jMSProducerResourcependingMessageCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that reside in this producer without acknowledgement"
::= { jMSProducerResource 121 }
jMSProducerResourceexpiredMessageCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that are expired in this producer"
::= { jMSProducerResource 131 }
jMSProducerResourcemessageWaitTime-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION

```

```

        "the period of time between when it creates message and when it delivers message"
        ::= { jMSProducerResource 141 }
jMSProducerResourcemessageWaitTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the maximum period of time between when it creates message and when it delivers message"
        ::= { jMSProducerResource 142 }
jMSProducerResourcemessageWaitTime-minTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the minimum period of time between when it creates message and when it delivers message"
        ::= { jMSProducerResource 143 }
jMSProducerResourcemessageWaitTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the total period of time between when it creates message and when it delivers message"
        ::= { jMSProducerResource 144 }
jMSProducerResourcesendTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the period of time to delivers messages"
        ::= { jMSProducerResource 151 }
jMSProducerResourcesendTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the maximum period of time to delivers messages"
        ::= { jMSProducerResource 152 }
jMSProducerResourcesendTime-minTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the minimum period of time to delivers messages"
        ::= { jMSProducerResource 153 }
jMSProducerResourcesendTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the total period of time to delivers messages"
        ::= { jMSProducerResource 154 }

-----
-- jMSSessionResource
-----

jMSSessionResource OBJECT IDENTIFIER
    ::= { jeus 36 }

```

```

jMSSessionResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { jMSSessionResource 1 }
jMSSessionResourcejMSEndPointConsumerNames OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard object names of consumers that are created by this session"
    ::= { jMSSessionResource 2 }
jMSSessionResourcemessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that are processed in this session"
    ::= { jMSSessionResource 101 }
jMSSessionResourcependingMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that resides in this session without acknowledgement"
    ::= { jMSSessionResource 111 }
jMSSessionResourceexpiredMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that are expired in this session"
    ::= { jMSSessionResource 121 }
jMSSessionResourcemessageWaitTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the period of time between when it creates message and when it delivers message"
    ::= { jMSSessionResource 131 }
jMSSessionResourcemessageWaitTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the maximum period of time between when it creates message and when it delivers message"
    ::= { jMSSessionResource 132 }
jMSSessionResourcemessageWaitTime-minTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the minimum period of time between when it creates message and when it delivers message"
    ::= { jMSSessionResource 133 }
jMSSessionResourcemessageWaitTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only

```

```

STATUS mandatory
DESCRIPTION
    "the total period of time between when it creates message and when it delivers message"
::= { jMSSessionResource 134 }
jMSSessionResourceDurableSubscriptionCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the durable subscribers that are created in this sessions"
::= { jMSSessionResource 141 }
jMSSessionResourceProducers-Destination OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "name of the destination to which each producers send messages"
::= { jMSSessionResource 151 }
jMSSessionResourceProducers-messageCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that are processed in this producer"
::= { jMSSessionResource 161 }
jMSSessionResourceProducers-pendingMessageCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that reside in each producers without acknowledgement"
::= { jMSSessionResource 171 }
jMSSessionResourceProducers-expiredMessageCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that are expired in each producers"
::= { jMSSessionResource 181 }
jMSSessionResourceProducers-messageWaitTime-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the period of time between when it creates message and when it delivers message"
::= { jMSSessionResource 191 }
jMSSessionResourceProducers-messageWaitTime-maxTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the maximum period of time between when it creates message and when it delivers message"
::= { jMSSessionResource 192 }
jMSSessionResourceProducers-messageWaitTime-minTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the minimum period of time between when it creates message and when it delivers message"

```

```

::= { jMSSessionResource 193 }
jMSSessionResourceproducers-messageWaitTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the total period of time between when it creates message and when it delivers message"
    ::= { jMSSessionResource 194 }
jMSSessionResourceconsumers-origin OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "name of the destination that each consumers connect to"
    ::= { jMSSessionResource 201 }
jMSSessionResourceconsumers-messageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that are processed in each consumer"
    ::= { jMSSessionResource 211 }
jMSSessionResourceconsumers-pendingMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that reside in each consumers without acknowledgement"
    ::= { jMSSessionResource 221 }
jMSSessionResourceconsumers-expiredMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that are expired in each consumers"
    ::= { jMSSessionResource 231 }
jMSSessionResourceconsumers-messageWaitTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the period of time between when it creates message and when it delivers message"
    ::= { jMSSessionResource 241 }
jMSSessionResourceconsumers-messageWaitTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the maximum period of time between when it creates message and when it delivers message"
    ::= { jMSSessionResource 242 }
jMSSessionResourceconsumers-messageWaitTime-minTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the minimum period of time between when it creates message and when it delivers message"
    ::= { jMSSessionResource 243 }
jMSSessionResourceconsumers-messageWaitTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString

```



```

ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the total period of time between when it creates message and when it delivers message"
::= { jMSSessionResource 244 }
jMSSessionResourcesendTime-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the period of time to delivers messages"
::= { jMSSessionResource 251 }
jMSSessionResourcesendTime-maxTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the maximum period of time to delivers messages"
::= { jMSSessionResource 252 }
jMSSessionResourcesendTime-minTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the minimum period of time to delivers messages"
::= { jMSSessionResource 253 }
jMSSessionResourcesendTime-totalTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the total period of time to delivers messages"
::= { jMSSessionResource 254 }
jMSSessionResourcecommitCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""
::= { jMSSessionResource 261 }
jMSSessionResourcerollbackCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""
::= { jMSSessionResource 271 }
jMSSessionResourcetransactionCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""
::= { jMSSessionResource 281 }

-----
-- eJBEngineMo
-----

```

```

eJBEngineMo OBJECT IDENTIFIER
    ::= { jeus 41 }

eJBEngineMoobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { eJBEngineMo 1 }
eJBEngineMoblockThreadCount OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the blocked threads of this EJB Engine"
    ::= { eJBEngineMo 2 }

-----
-- threadPoolMo
-----

threadPoolMo OBJECT IDENTIFIER
    ::= { jeus 53 }

threadPoolMoobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { threadPoolMo 1 }
threadPoolMomin OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { threadPoolMo 3 }
threadPoolMomax OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { threadPoolMo 5 }
threadPoolMomaxIdleTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { threadPoolMo 9 }
threadPoolMomaxQueue OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""

```

```

 ::= { threadPoolMo 11 }
threadPoolMomaxThreadActiveTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { threadPoolMo 14 }
threadPoolMonotifyThreshold OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { threadPoolMo 15 }
threadPoolMorestartThreshold OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { threadPoolMo 16 }
threadPoolMoactiveThreadCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the threads that are being used in thread pool of this Thread Pool"

 ::= { threadPoolMo 101 }
threadPoolMoblockThreadCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the threads that are blocked in thread pool of this Thread Pool"

 ::= { threadPoolMo 111 }
threadPoolMoallThreadCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of all threads that are in thread pool of this Thread Pool"

 ::= { threadPoolMo 121 }
threadPoolMomaxThreadCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { threadPoolMo 131 }
threadPoolMowaitQueueCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

 ::= { threadPoolMo 141 }

```

```

-- webEngineMo
-----

webEngineMo OBJECT IDENTIFIER
    ::= { jeus 54 }

webEngineMoobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { webEngineMo 1 }
webEngineMoconfigInfo OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the contents of the configuration file(WEBMain.xml) of this Web Engine"
    ::= { webEngineMo 3 }
webEngineMoserverStatus OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the status of the session server that is configured in this Web Engine"
    ::= { webEngineMo 4 }
webEngineMowebtConnectionGroup OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { webEngineMo 8 }
webEngineMocheckThreadPool OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { webEngineMo 11 }
webEngineMocheckClassReload OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { webEngineMo 13 }
webEngineMocheckSession OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { webEngineMo 15 }
webEngineMofreeMemory-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory

```

```

DESCRIPTION
""

::= { webEngineMo 101 }
webEngineMototalMemory-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
""

::= { webEngineMo 111 }

-----
-- webListenerMo
-----

webListenerMo OBJECT IDENTIFIER
::= { jeus 55 }

webListenerMoobjectName OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
"JMX-standard MBean object name"
::= { webListenerMo 1 }
webListenerMothreadPools OBJECT-TYPE
SYNTAX SEQUENCE OF DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
"JMX-standard object names of the Thread Pools that is registered on this Web Listener"
::= { webListenerMo 2 }
webListenerMotype OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
"the type of this Web Listener"
::= { webListenerMo 3 }
webListenerMoport OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
""

::= { webListenerMo 4 }
webListenerMoreadTimeout OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-write
STATUS mandatory
DESCRIPTION
""

::= { webListenerMo 6 }
webListenerMoreconnectTimeout OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-write
STATUS mandatory
DESCRIPTION
""

```

```

        ::= { webListenerMo 8 }
webListenerMopostdataReadTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { webListenerMo 10 }

-----
-- jMSClientResource
-----

jMSClientResource OBJECT IDENTIFIER
    ::= { jeus 61 }

jMSClientResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { jMSClientResource 1 }
jMSClientResourcejMSConnectionResourceNames OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard object names of the connections that are created by JMS clients"
    ::= { jMSClientResource 4 }
jMSClientResourceconnectionCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the connections that are created by JMS clients"
    ::= { jMSClientResource 101 }

-----
-- jMSQueueConnectionFactoryResource
-----

jMSQueueConnectionFactoryResource OBJECT IDENTIFIER
    ::= { jeus 62 }

jMSQueueConnectionFactoryResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { jMSQueueConnectionFactoryResource 1 }

-----
-- jMSQueueDestinationResource
-----

jMSQueueDestinationResource OBJECT IDENTIFIER
    ::= { jeus 63 }

```

```

jMSQueueDestinationResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { jMSQueueDestinationResource 1 }
jMSQueueDestinationResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the name of this JMS Destination"
    ::= { jMSQueueDestinationResource 2 }
jMSQueueDestinationResourceexportName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the JNDI export name of this JMS Destination"
    ::= { jMSQueueDestinationResource 3 }
jMSQueueDestinationResourceobjectType OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the type of this JMS Destination"
    ::= { jMSQueueDestinationResource 4 }
jMSQueueDestinationResourcedestination OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the reference of the DestinationImpl object, which has destination information"
    ::= { jMSQueueDestinationResource 8 }
jMSQueueDestinationResourcejMSConsumerResourceNames OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "names of JMS clients that belong to JMS Destination"
    ::= { jMSQueueDestinationResource 9 }
jMSQueueDestinationResourcemessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jMSQueueDestinationResource 101 }
jMSQueueDestinationResourcependingMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jMSQueueDestinationResource 111 }
jMSQueueDestinationResourceexpiredMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString

```

```

ACCESS read-only
STATUS mandatory
DESCRIPTION
"""

 ::= { jMSQueueDestinationResource 121 }
jMSQueueDestinationResourcemessageWaitTime-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
"""

 ::= { jMSQueueDestinationResource 122 }
jMSQueueDestinationResourcemessageWaitTime-maxTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
"""

 ::= { jMSQueueDestinationResource 123 }
jMSQueueDestinationResourcemessageWaitTime-minTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
"""

 ::= { jMSQueueDestinationResource 124 }
jMSQueueDestinationResourcemessageWaitTime-totalTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
"""

 ::= { jMSQueueDestinationResource 125 }
jMSQueueDestinationResourcesendTime-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
"""

 ::= { jMSQueueDestinationResource 131 }
jMSQueueDestinationResourcesendTime-maxTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
"""

 ::= { jMSQueueDestinationResource 132 }
jMSQueueDestinationResourcesendTime-minTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
"""

 ::= { jMSQueueDestinationResource 133 }
jMSQueueDestinationResourcesendTime-totalTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION

```



```

""
 ::= { jMSQueueDestinationResource 134 }

-----
-- jMSDurableSubscriptionResource
-----

jMSDurableSubscriptionResource OBJECT IDENTIFIER
 ::= { jeus 64 }

jMSDurableSubscriptionResourceobjectName OBJECT-TYPE
 SYNTAX DisplayString
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
  "JMX-standard MBean object name"
 ::= { jMSDurableSubscriptionResource 1 }
jMSDurableSubscriptionResourceclientID OBJECT-TYPE
 SYNTAX DisplayString
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
  "the client ID of JMS Durable Subscriber"
 ::= { jMSDurableSubscriptionResource 3 }
jMSDurableSubscriptionResourceremainingMessages OBJECT-TYPE
 SYNTAX DisplayString
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
  "the number of the messages which are alive in durable subscriber"
 ::= { jMSDurableSubscriptionResource 5 }
jMSDurableSubscriptionResourceselector OBJECT-TYPE
 SYNTAX DisplayString
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
  "selector value which is configured in durable subscriber"
 ::= { jMSDurableSubscriptionResource 6 }

-----
-- jMSTopicConnectionFactoryResource
-----

jMSTopicConnectionFactoryResource OBJECT IDENTIFIER
 ::= { jeus 65 }

jMSTopicConnectionFactoryResourceobjectName OBJECT-TYPE
 SYNTAX DisplayString
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
  "JMX-standard MBean object name"
 ::= { jMSTopicConnectionFactoryResource 1 }

-----
-- jMSTopicDestinationResource
-----

jMSTopicDestinationResource OBJECT IDENTIFIER

```

```

::= { jeus 66 }

jMSTopicDestinationResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { jMSTopicDestinationResource 1 }
jMSTopicDestinationResourcecname OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the name of this JMS Destination"
    ::= { jMSTopicDestinationResource 2 }
jMSTopicDestinationResourceexportName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the JNDI export name of this JMS Destination"
    ::= { jMSTopicDestinationResource 3 }
jMSTopicDestinationResourcetype OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the type of this JMS Destination"
    ::= { jMSTopicDestinationResource 4 }
jMSTopicDestinationResourcedestination OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the reference of the DestinationImpl object, which has destination information"
    ::= { jMSTopicDestinationResource 8 }
jMSTopicDestinationResourcejMSConsumerResourceNames OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "names of JMS clients that belong to JMS Destination"
    ::= { jMSTopicDestinationResource 9 }
jMSTopicDestinationResourcemessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jMSTopicDestinationResource 101 }
jMSTopicDestinationResourcependingMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { jMSTopicDestinationResource 111 }
jMSTopicDestinationResourceexpiredMessageCount-count OBJECT-TYPE

```

```

SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

 ::= { jMSTopicDestinationResource 121 }
jMSTopicDestinationResourcemessageWaitTime-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

 ::= { jMSTopicDestinationResource 122 }
jMSTopicDestinationResourcemessageWaitTime-maxTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

 ::= { jMSTopicDestinationResource 123 }
jMSTopicDestinationResourcemessageWaitTime-minTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

 ::= { jMSTopicDestinationResource 124 }
jMSTopicDestinationResourcemessageWaitTime-totalTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

 ::= { jMSTopicDestinationResource 125 }
jMSTopicDestinationResourcesendTime-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

 ::= { jMSTopicDestinationResource 131 }
jMSTopicDestinationResourcesendTime-maxTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

 ::= { jMSTopicDestinationResource 132 }
jMSTopicDestinationResourcesendTime-minTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

 ::= { jMSTopicDestinationResource 133 }
jMSTopicDestinationResourcesendTime-totalTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory

```

```

DESCRIPTION
    ""

    ::= { jMSTopicDestinationResource 134 }

-----
-- threadPool
-----

threadPool OBJECT IDENTIFIER
    ::= { jeus 71 }

threadPoolObjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { threadPool 1 }

-----
-- subjectMo
-----

subjectMo OBJECT IDENTIFIER
    ::= { jeus 101 }

subjectMoObjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { subjectMo 1 }

subjectMosubjectNames OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { subjectMo 2 }

-----
-- securityDomainMo
-----

securityDomainMo OBJECT IDENTIFIER
    ::= { jeus 102 }

securityDomainMoObjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { securityDomainMo 1 }

securityDomainModomainName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory

```

```

DESCRIPTION
    ""

    ::= { securityDomainMo 2 }
securityDomainMopolicy OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { securityDomainMo 3 }
securityDomainMosubjects OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { securityDomainMo 4 }

-----
-- policyMo
-----

policyMo OBJECT IDENTIFIER
    ::= { jeus 103 }

policyMoobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { policyMo 1 }
policyMopolicyIds OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { policyMo 2 }

-----
-- securityMo
-----

securityMo OBJECT IDENTIFIER
    ::= { jeus 104 }

securityMoobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { securityMo 1 }
securityMocurrentDomain OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION

```

```

    ""
    ::= { securityMo 2 }
securityMosecurityDomains OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { securityMo 3 }

END

```