

JEUS SNMPガイド

JEUS v8.0



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このガイドについて

対象読者

本書は、JEUS[®](以下、JEUS)のシステム管理者、SNMPを使用してJEUSをモニタリングするネットワーク管理者および開発者を対象としています。

前提知識

JEUSサーバーに関する一般的な知識と、SNMPアプリケーションの開発(<http://www.oracle.com/technetwork/java/index.html>または<http://www.ietf.org/rfc.html>を参照)およびSNMP関連の環境設定に関する知識が必要です。

JEUSの基本的な使用方法と製品を理解するには、以下のガイドについてあらかじめ熟知することをお勧めします。

- JEUS 紹介ガイド
- JEUS インストール&スタートガイド
- JEUS サーバガイド

本書のすべてのサンプルと環境構成は、UNIXスタイルに準拠します。Microsoft Windows[™](以下、Windows)など他の環境で作業を行う場合は、次のような事項を考慮してください。

たとえば、Windowsプラットフォームでは、ディレクトリー区切り子をUNIXスタイルのスラッシュ(/)からWindowsスタイルのバックスラッシュ(\)に変えて使用してください。また、環境変数もWindowsスタイル(%%)に変更して使用してください。

本書で触れているJEUS_HOMEは、JEUSがインストールされているディレクトリーです。

制限条件

本書の内容は、Java標準に準拠して作成されていますが、本書で触れているJava EEやSNMP仕様については取り上げていません。関連内容についてはJava関連ドキュメントを参照してください。

本書の構成

本書は、計5章と付録で構成されています。

- [「第1章 はじめに」](#)

JEUS SNMPエージェントの基本的な概念と構成について説明します。

- [「第2章 SNMPエージェントの設定」](#)

JEUS SNMPエージェントの特徴と環境設定について説明します。

- [「第3章 SNMP MIB」](#)

JEUSで使用するSNMP MIBについて説明します。

- [「第4章 SNMPマネージャー・アプリケーション」](#)

SNMPマネージャー・アプリケーションの開発について説明します。

- [「第5章 SNMPの使用例」](#)

SNMPの使用例について説明します。

- [「付録 A. JEUS SNMP MIBの紹介」](#)

MIBファイルについて説明します。

表記上の規則

表記	意味
<<AaBbCc123>>	プログラム・ソースコードのファイル名
<Ctrl>+C	CtrlキーとCキーを同時に押す
[Button]	GUIのボタン、メニュー名
太字	強調
「」、『』（鍵カッコ）	関連文書、あるいはガイド内の他の章および節の表示
「入力項目」	画面UI上の入力項目
ハイパーリンク	メール・アカウント、Webサイト
>	メニューの実行順
+----	下位ディレクトリー/ファイル有り
----	下位ディレクトリー/ファイル無し
<div>参考</div>	参照/注意事項
<div>注</div>	注意事項
[図 1.1]	図の名前
[表 1.1]	表の名前
AaBbCc123	Javaコード、XMLドキュメント
[<i>command argument</i>]	オプション・パラメータ
< xyz >	「<」と「>」の間の内容は実際に使用される特定の名前または値で置き換えられる
	構文の中の相互に排他的な選択項目の選択肢を示す 例) A B: AとBのいずれかを選択
...	パラメータ、値、または他の情報が繰り返される
\${ }	環境変数

システム要件

	要求事項
プラットフォーム	Solaris 9, 10, 11
	HP-UX 11.x, 11i, 11iV2
	IBM AIX 5L, 6L, AIX 7L
	MS Windows 2008, 2012, Vista, 7, 8
ハードウェア	最小2GB以上、推奨20GBのハードディスク容量
	推奨1GB以上のメモリー容量
JDK	JDK 7, JDK 8

関連文書

ガイド	説明
JEUS 紹介ガイド	JEUSサーバーについて全般的に紹介し、JEUSのアーキテクチャーを含む各構成要素について記述しています
JEUS インストール&スタートガイド	JEUSについて紹介し、JEUSのインストールおよび開始方法について記述しています
JEUS サーバガイド	JEUSシステムおよびサーバーの概要とシステムの管理方法について記述しています
JEUS JMXガイド	JEUS JMX(Java Management eXtensions)モジュールを使用したJEUSの管理について記述しています
JEUS リファレンスガイド	JEUSを使用するために必要な詳細設定とJEUSの使用方法について記述しています
JEUS WebAdminガイド	JEUSのWeb管理ツールであるWebAdminを利用したJEUSの設定および制御、モニタリング、クラスタリング、リソースの設定および管理について記述しています

参考文献

- Java EE 7の仕様
- J2EE Management 1.1の仕様
- SNMPの仕様

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第1章 はじめに

本章では、JEUS SNMPの基本的な概念と構成について紹介し、JEUS SNMPエージェントとJEUSシステムとの関係、JEUS JMXとの関係、およびSNMPエージェントにメッセージを送受信するSNMPマネージャー・アプリケーションについて簡単に説明します。

1.1. 概要

SNMP(Simple Network Management Protocol)は、ネットワークの複数のハードウェアとソフトウェアをモニタリングするための標準プロトコルです。

JMX 1.2のスペックは、SNMPに対応するプロトコル・アダプターを提供します。J2EE Management 1.1のスペックは、インターネット通信においてネットワークやシステム管理プロトコルを使用するためのMIB(Management Information Base)を定義しています。

1.2. コンポーネント

JEUS SNMPエージェントが動作するためのメイン・コンポーネントは以下のとおりです。

- **JEUS SNMPエージェント**

JMX MBeanサーバーと通信を行い、論理的にJEUSに位置します。JEUS SNMPエージェントは、JEUSを管理するための基盤構造を提供しており、J2EE Management 1.1を実装しています。

JEUSサーバーの構造については『JEUS サーバガイド』を参照してください。

- **MIB(Management Information Base)**

JEUSマネージメント情報の構造を提供します。MIBファイル名はTMAX-JEUS8.0-MIB.mibです。

- **SNMPマネージャー**

SNMPエージェントとメッセージを送受信します。

SNMPマネージャー・アプリケーションがSNMPのメッセージを送信する際、SNMPエージェントは設定したポートをリッスンしています。該当ポートに要求が送信された場合、まずMIBツリーでOIDを検索し、そのProtocol Data Unit(以下、PDU)タイプを特定して、JEUS JMX MBeanサーバーを呼び出します。情報を取得すると、SNMPマネージャー・アプリケーションにその値を返します。

SNMPエージェント

JEUS SNMPエージェント・モジュールは、SNMPでJEUSシステムを管理する際に有用なコンポーネントです。

Webアプリケーション・サーバー (Web Application Server、以下WAS) の管理プロトコルでSNMPを使用するためには、JEUS JMX MBeanサーバーと通信しており、SNMPマネージャー・アプリケーションをサポートします。

JEUS SNMPエージェントは、以下のようなプロトコルを提供します。

- SNMPv1
- SNMPv2
- SNMPv3

JEUS SNMPエージェントはJEUS JMXと完全に統合されます。JEUS SNMPエージェントが検索できるすべての情報は、JEUS JMX APIで可能です。JEUS JMX APIをJEUSマネージメント・システムのSecond-Levelサービス・コンポーネントとして使用し、それぞれのJEUS SNMPエージェントはJEUSシステムのサーバーのようなJVMのうちの1つと関連しています。

たとえば、JMX MbeanはEJBエンジンにデプロイされているすべてのモジュールの情報を管理し、SNMPマネージャーはこの情報(JEUS SNMP OID)をEJBエンジンに該当するSNMPエージェントに送信して、デプロイされたモジュールを確認できます。

SNMPエージェント・インスタンスはJEUS JMXのプロトコル・アダプターとして運用され、SNMPマネージャー・アプリケーションからSNMPパケットを受信して処理します。つまり、特定ポート番号を継続してリッスンしながら、SNMPマネージャーの要求を待機します。リッスン・ポートはWebAdminを使用して設定し、設定していない場合は動作しません。

すべてのエージェント・インスタンスは同じ方法で動作します。そのため、各エージェントはJEUSマネージメント・システムのすべての情報を取得できます。1つ以上のエージェント・インスタンスが1つのマシンで起動するには、ポート番号が異なる必要があります。

参考

JEUS SNMPエージェントを運用するには、SNMPアダプター・ポートを必ず設定する必要があります。

SNMPマネージャー・アプリケーション

通常、SNMPマネージャーはシステム、特に通信設備を管理するアプリケーションを示します。J2EEにおいてSNMPマネージャーはエンタープライズ・アプリケーション、とりわけWASのようなミドルウェアを管理します。

SNMPマネージャー・アプリケーションはMIBを参照してSNMPエージェントで管理情報を要求します。アプリケーションはMIBファイルをパースングして情報の構造を分析し、管理者が容易に管理できるようにします。

第2章 SNMPエージェントの設定

本章では、JEUS SNMPエージェントの環境設定方法について説明します。

2.1. 概要

JEUS SNMPエージェントは、J2EEのコンポーネントだけでなく、エンタープライズ・メッセージ・ミドルウェアの特徴も持っています。

- JMX Management 1.1の全スペックを提供します。

- 一般的にNMSプロトコルとして使用されているSNMPv1とSNMPv2を提供します。

SNMPv1とSNMPv2を使用するすべてのSNMPマネージャーは、エージェントを介してJEUS内部の情報を照会できます。

- SNMPエージェントとセキュリティー通信を行うためのSNMPv3を提供します。

SNMPエージェントと安定した通信を行うためには、SNMPマネージャーが必要です。SNMPv3を使用するすべてのSNMPマネージャーは、情報を安全に読み込むことができます。

- JEUS SNMPエージェントは、各JEUS JVM(サーバー)で実行できます。

2.2. SNMPアダプターの設定

以下は、JEUS WebAdminでSNMPエージェント環境を設定する方法についての説明です。

1. WebAdminメイン画面で設定を変更するサーバー名をクリックするか、左側のメニューで**[Servers]**を選択後、サーバー一覧画面で変更するサーバーを選択します。

サーバー環境を設定し、**[Resource]**タブで**[Jmx Manager]**メニューを選択すると、**Jmx Manager**画面に移動します。

[図 2.1] JMXマネージャーの設定画面

Basic	Resource	Engine
-------	----------	--------

Listener | Jms Resource | **Jmx Manager** | Scheduler | Lifecycle Invocation | External Resource

動的設定 * 必須項目 このページの設定を変更したい場合は、左のメニューから[Lock & Edit]ボタンをクリックしてください。 **TIP**

Use Rmi Connector	<input type="checkbox"/> RMIコネクタサーバを使用するかを指定します。
Use Html Adaptor	<input type="checkbox"/> HTMLアダプタを使用するかを指定します。
Html Adaptor Port	<input type="text"/> JMXアダプタの1つであるHTMLアダプタのポートを指定します。指定された値を使ってWebブラウザに接続します。
Mlet Url	<input type="text"/> サーバのMBeanサーバに登録するMletのURLを指定します。

Snmp Adaptor ☐
JMXアダプタの1つであるSNMPアダプタを設定します。

Snmp Adaptor Port *	<input type="text"/> SNMPアダプタのリスナーポートを設定します。
Snmp Version	<input type="text"/> [デフォルト: 3] SNMPバージョンを指定します。1、2、3から指定できます。
Snmp Max Packet Size	<input type="text"/> [デフォルト: 4096] SNMPパケットの最大値を設定します。最小256バイトから設定できます。
Snmp Security	<input type="checkbox"/> [デフォルト: false] セキュリティを適用するかを指定します。セキュリティは、SNMPバージョン3でのみ設定できます。
Trap Demon	<input type="text"/> EX 111.111.111.1:8888 障害が発生した場合にTRAPメッセージを送信するサーバを指定します。複数指定が可能であり、指定されたすべてのIPアドレスにメッセージを送信します。

2. 設定を変更する前に[**LOCK & EDIT**]ボタンをクリックして、ロックの設定を変更する必要があります。設定変更モードの詳細については『*JEUS WebAdminガイド*』の「2.4.4. ロック機能」を参照してください。
3. **Jmx Manager画面**で**Jmx Connector**領域の下の方「**Snmp Adaptor**」項目のチェックボックスにチェックを入れ、各情報を入力します。設定が完了すれば[**確認**]ボタンをクリックして設定情報を保存します。

[図 2.2] SNMPアダプターの設定

Snmp Adaptor

JMXアダプタの1つであるSNMPアダプタを設定します。

Snmp Adaptor Port	<input type="text"/> <small>SNMPアダプタのリスナーポートを設定します。</small>
Snmp Version	<div> <input type="text"/> </div> <small>[デフォルト: 3] SNMPバージョンを指定します。1、2、3から指定できます。</small>
Snmp Max Packet Size	<input type="text"/> <small>[デフォルト: 4096] SNMPパケットの最大値を設定します。最小256バイトから設定できます。</small>
Snmp Security	<input type="checkbox"/> <small>[デフォルト: false] セキュリティを適用するか否かを設定します。セキュリティは、SNMPバージョン3でのみ設定できます。</small>
Trap Demon	<div> <input type="text"/> <div> </div> </div> <small>EX 111.111.111.1:8888</small> <small>障害が発生した場合にTRAPメッセージを送信するサーバを指定します。複数指定が可能であり、指定されたすべてのIPアドレスにメッセージを送信します。</small>

Pooling

SNMPサーバにてリクエストを処理するスレッドで構成されています。以下の項目で、スレッドを管理するプールを設定します。

Min	<input type="text"/> <small>[デフォルト: 2] プーリングされるオブジェクトの最小値を設定します。</small>
Max	<input type="text"/> <small>[デフォルト: 30] プーリングされるオブジェクトの最大値を設定します。</small>
Period	<input type="text"/> ms <small>[デフォルト: 3600000] プールに存在するオブジェクト数を最小値(min)に指定された数まで減らします。</small>

以下は、設定項目についての説明です。

項目	説明
Snmp Adaptor Port	SNMPサーバーのリスナーポートを設定します。SNMPマネージャーはこのポートを使用してマネージメント情報を要求できます
Snmp Version	エージェントが使用するSNMPバージョンを明示します。1、2、3から指定できます
Snmp Max Packet Size	SNMPパケットの最大値を設定します。256バイトから設定できます
Snmp Security	セキュリティを適用するか否かを設定します。セキュリティはSNMPv3でのみ設定できます
Trap Demon	障害が発生した場合にTRAPメッセージを送信するサーバーを指定します。

項目	説明
	複数のサーバーを指定することができ、指定されたすべてのIPアドレスにメッセージを送信します
Pooling	<p>SNMPエージェントに複数の要求が同時に殺到した場合、スレッド・プールを使用して処理することができます</p> <ul style="list-style-type: none"> – Min, Max : ワーカー・スレッドの最小数および最大数 – Period : ワーカー・スレッドのチェック周期

参考

スレッド・プールの動作に関しては、JEUSの複数の他コンポーネントで共有する設定であるため、詳細については説明していません。

4. 設定情報をサーバーに反映するには**[Activate Changes]**ボタンをクリックします。
-

参考

SNMPアダプターに関する設定は動的変更をサポートしていないため、設定後にサーバーを再起動する必要があります。

第3章 SNMP MIB

本章ではSNMP MIBについて説明します。

3.1. 概要

ユーザーは、すべてのJEUSサーバーの属性にアクセスできます。これはJEUS MIBに定義されています。MIBは標準SNMPの一部です。

参考

MIBの詳細についてはwww.ietf.orgを参照してください。

3.2. MIBブラウジング

JEUS MIBファイルは、以下のディレクトリーに存在するTMAX-JEUS8.0-MIB.mibファイルに定義されています。

```
JEUS_HOME/lib/system
```

MIBファイルを直接確認することができ、「[付録 A. JEUS SNMP MIBの紹介](#)」でOIDの属性値のマッピングを確認することもできます。

JEUSではMIBブラウザを提供しませんが、サードパーティのMIBブラウザを使用することができます。MIBブラウザは殆どのSNMPユーティリティー・ベンダーによって提供されています。

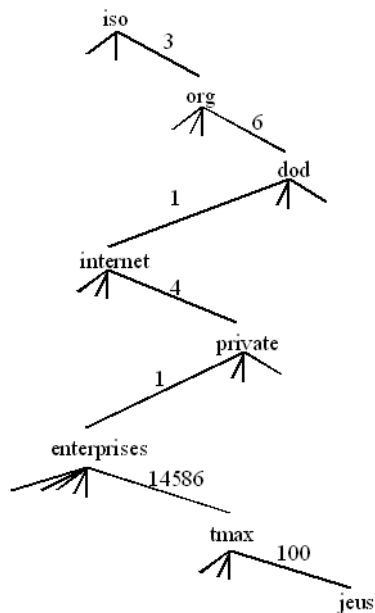
3.3. オブジェクトの識別(OID)

OID(Object ID)は、管理されるオブジェクトを区別するために整数を並べたもので、OIDのツリー構造を使用してオブジェクトのパスを定義します。OIDはMIBファイルで定義します。

各OIDはJEUS MBeanの各属性とマッピングされます。JEUS SNMPエージェントに特定のOID値を持つSNMPパケットを送信すると、OIDと一致する情報を返します。

以下は、JEUS MIBのOIDツリーです。

【図 3.1】 JEUS MIBのOID



TmaxSoftのエンタープライズOIDは1.3.6.1.4.1.14586です。つまり、すべてのJEUS属性値の接頭語は1.3.6.1.4.1.14586.100になります。たとえば、JEUSサーバーのバージョン属性値のOIDは1.3.6.1.4.1.14586.100.3.2です。

3.4. JEUS SNMP OIDの接尾語

オブジェクトの列を取得する標準接尾語は以下のとおりです。

接尾語	説明
0	全オブジェクトを取得します
1	全オブジェクトのうち一番目のオブジェクトのみを取得します

たとえば、1.3.6.1.4.1.14586.100.9.1.1 OIDにおいて、1.3.6.1.4.1.14586.100.9.1はEJBモジュールのオブジェクト名の属性を意味し、1.3.6.1.4.1.14586.100.9.1.1は一番目のEJBモジュールのオブジェクト名を意味します。そのため、GET_NEXT 1.3.6.1.4.1.14586.100.9.1を使用すると、1.3.6.1.4.1.14586.100.9.1.1の結果ではなく、1.3.6.1.4.1.14586.100.9.2の値が返されます。

JEUS SNMPエージェントは、オブジェクトの数を返す特別なOID接尾語である「9999」を提供します。たとえば、GET 1.3.6.1.4.1.14586.100.9.1.9999とした場合、JEUSに10個のEJBがデプロイされていれば、10を返します。

参考

すべてのOIDツリーに接尾語があるわけではないので、実際のOIDのみを検索できます。

3.5. 静的OIDと動的OID

JEUSでは以下のように2つのOIDバージョンに対応しています。

- 静的OID(Static OID)

- MIBベースの情報のみで構成されているOIDです。
- 静的OIDは、同じ特性を持つオブジェクトに対して同じOIDが割り当てられます。そのため、1つのOIDに対して該当オブジェクトが複数存在する場合、その値が一覧となって返されます。

たとえば、JEUSで2つのサーバーが実行されている場合、サーバーの名前に該当するOIDで要求すると、[server name1, server name2]のように一覧が返されます。
- 同じOIDに対して複数のオブジェクトが存在する場合、該当オブジェクトのモニタリングが容易ではありません。

- 動的OID(Dynamic OID)

- 動的OIDは、オブジェクトの一意の値を割り当てるために、MIBによる情報から構成されているOIDに「.」で区切られた32個の数字を羅列して構成されます。

(例, [MIBベースのOID].1.2.3.4.5.--- . 31.32)
- 32桁のIDは、オブジェクトが作成される際にSNMPエージェントで動的に作成されます。各オブジェクトに動的OIDを付与して、特定のオブジェクトを容易にモニタリングできます。

2つのサーバーを運用中のJEUSで、各サーバーのスレッド・プールの最大値と最小値を知りたい場合の静的OIDと動的OIDの違いは以下のとおりです。

- 静的OIDの場合

以下の形式のMIBベースのOIDに該当するオブジェクトの一覧が返されます。

```
[最大値に該当するOID]=[ maximum, maximum' ], [最小値に該当するOID]=[ minimum, minimum' ]
```

この際に結果値の一覧で同じ位置にあるmaximumとminimumが同じサーバーの値であるとは限らないため、同じサーバーに関連する値を把握することができません。(1つのサーバーに該当する値が最初に表示される場合もあれば、2番目に示される場合もあります)

- 動的OIDの場合

以下の形式で結果値が出力されるので、特定のオブジェクトに関連する値を正確に把握することが出来ます。

```
[最大値に該当するOID].[server1の動的作成OID]=maximum, [最小値に該当するOID].[server1の動的作成OID]=minimum
```

JEUSでSNMPは動的OIDをベースにして動作します。SNMPを静的OIDで使用したい場合、JEUSの実行スクリプトで以下のように実行します。

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

第4章 SNMPマネージャー・アプリケーション

本章では、JEUS SNMPマネージャー・アプリケーションの開発および設定方法について説明します。

4.1. 概要

SNMP(SNMPv1、SNMPv2、SNMPv3)標準を遵守するSNMPマネージャーはJEUS SNMPと一緒に動作します。

参考

SNMPの詳細については、SNMPマネージメント・フレームワーク関連の仕様を参照してください。(J2EE management 1.1の仕様参照)

4.2. 簡単なSNMPクライアント・プログラム

アプリケーションのタイプは必要に応じて様々です。本節では、SNMP4J APIを使用したクライアント・プログラムについて説明します。

SNMP4Jはオープンソースであり、J2SE 1.4および後継バージョンに適したSNMPのインプリメントを提供しています。SNMP4J APIを利用したSNMPクライアント・アプリケーションは以下の手順で実行します。

1. PDUタイプを設定します。

情報を取得するSNMPオブジェクトのOIDを設定し、PDUタイプを設定します。

2. ターゲットを設定します。

SNMP情報を取得するターゲットのアドレスおよびポート番号を設定し、SNMPのバージョンを設定します。(JEUS SNMPはUDPを使用するため、UDPアドレスを使用)

3. SNMPメッセージ・オブジェクトを作成します。

送信するメッセージを作成します。

4. メッセージの送信および応答の受信を行います。

メッセージを送信した後、応答を受信します。

例

以下は、SNMP4J APIを利用したSNMPクライアント・アプリケーション・プログラムの例です。

[例 4.1] <<SnmpclientSample.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 SnmpclientSample{
    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 ();
    }
}
}

```

参考

SNMP4J APIはwww.snmp4j.orgにて提供されています。SNMP4J APIについての詳細はSNMP4J関連文書を参照してください。

第5章 SNMPの使用例

本章では、JEUS SNMPエージェントを起動する方法と、SNMPクライアント・アプリケーションがJEUSからモニタリング情報を取得する方法について、例を利用して説明します。

1. 「[4.2. 簡単なSNMPクライアント・プログラム](#)」にあるSNMPクライアントのサンプル・プログラムを作成した後、コンパイルします。サンプル・プログラムをコンパイルするためにはSNMP4Jが必要です。SNMP4J APIはwww.snmp4j.orgから取得できます。
2. 「[第2章 SNMPエージェントの設定](#)」の[設定項目](#)を参照してSNMPアダプターを設定します。サンプル・プログラムは基本的に9999ポートを使用するように設定されているため、SNMP Adaptor Port項目を「9999」に設定します。
3. サーバーを再起動します。SNMPアダプターが使用中の場合、サーバーが起動中に以下のログを確認できます。

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

参考

本書では、JEUSサーバーの名前を「adminServer」と仮定します。

4. 1番の項目で作成したサンプル・プログラムを実行します。サンプル・プログラムを正常に実行するためには、クラスパスでSNMP4Jを検索できるように設定する必要があります。以下の実行例では、/home/user1/libの下に「SNMP4J.jar」という名前のSNMP4Jが存在すると仮定しています。

```
$ java -classpath /home/user1/lib/SNMP4J.jar SmpclientSample  
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]
```

参考

サンプル・プログラムは基本的に127.0.0.1:9999で接続するように設定されています。サンプル・プログラムを実行する際、ポート番号、IPアドレスの順でパラメータを指定して実行すると、他のアドレスとポート番号に接続できます。

付録 A. JEUS SNMP MIBの紹介

本章では、JEUS SNMP MIBについて詳しく説明します。

A.1. 概要

SNMPマネージャーの開発者は、開発する際に参照するMIBファイルを必要とします。JEUSのMIBファイルであるTMAX-JEUS8.0-MIB.mibファイルは以下のディレクトリーに位置します。

```
JEUS_HOME/lib/system
```

このファイルでは、JEUS SNMP MIBファイルの内部的と属性値、そしてOIDのマッピングを確認できます。

A.2. OIDと属性値のマッピング

TMAX-JEUS-MIBについて容易に理解できるように、簡単なOIDと属性値の表を提供します。

マッピングのフォーマットは以下のとおりです。

```
[OID(グループ名)] [属性(属性名)]
```

すべてのOIDに共通したプレフィックスである「1.3.6.1.4.1.14586.100.」は省略します。(TmaxSoftのエンタープライズ番号は14586であり、JEUSの製品番号は100です)

JEUS 4.Xバージョンとの違いは、MIBファイルで重複するMIBオブジェクト名が作成されることを防ぐために、フォーマットの[属性(属性名)]の前に[OID(グループ名)]を入力することです。

以下は、OIDと属性値の表です。

```
2.1 j2EEDomainobjectName
2.2 j2EEDomainservers
2.3 j2EEDomaintroubles
2.4 j2EEDomainownTroubles
3.1 j2EEServerobjectName
3.2 j2EEServerserverVersion
3.3 j2EEServerserverVendor
3.4 j2EEServerjavaVMs
3.5 j2EEServerdeployedObjects
3.6 j2EEServerresources
3.8 j2EEServerjeusServices
3.9 j2EEServerengines
3.10 j2EEServerenginesFromDescriptor
```

- 3.15 j2EEServerdistributedModules
- 3.17 j2EEServernodeName
- 3.18 j2EEServerappPaths
- 3.19 j2EEServertroubles
- 3.20 j2EEServerownTroubles
- 4.1 jVMObjectName
- 4.2 jVMjavaVersion
- 4.3 jVMjavaVendor
- 4.4 jVMnode
- 4.6 jVMoSName
- 4.7 jVMoSVersion
- 4.8 jVMallProperties
- 4.9 jVMtroubles
- 4.10 jVMownTroubles
- 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
- 6.9 j2EEApplicationtroubles
- 6.10 j2EEApplicationownTroubles
- 8.1 appClientModuleobjectName
- 8.2 appClientModuledeploymentDescriptor
- 8.3 appClientModuleserver
- 8.4 appClientModulejavaVMs
- 8.5 appClientModuleapplicationType
- 8.6 appClientModulemoduleType
- 8.7 appClientModulejeusDeploymentPlan
- 8.8 appClientModuletargetModuleID
- 8.9 appClientModuletroubles
- 8.10 appClientModuleownTroubles
- 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
9.12 eJBModuletroubles
9.13 eJBModuleownTroubles
11.1 messageDrivenBeanobjectName
11.2 messageDrivenBeantroubles
11.3 messageDrivenBeanownTroubles
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
12.2 entityBeantroubles
12.3 entityBeanownTroubles
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
14.2 statefulSessionBeantroubles
14.3 statefulSessionBeanownTroubles
14.101 statefulSessionBeancreateCount-count
14.111 statefulSessionBeanremoveCount-count
14.121 statefulSessionBeanrequestCount-count
14.131 statefulSessionBeancommittedCount-count
14.141 statefulSessionBeanrolledbackCount-count
14.151 statefulSessionBeantimeoutRolledbackCount-count
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92.101 externalWebtDataSourcecreateCount-count
92.111 externalWebtDataSourcecloseCount-count
92.121 externalWebtDataSourcepoolSize-upperBound
92.122 externalWebtDataSourcepoolSize-lowerBound
92.123 externalWebtDataSourcepoolSize-highWaterMark
92.124 externalWebtDataSourcepoolSize-lowWaterMark
92.125 externalWebtDataSourcepoolSize-current
92.131 externalWebtDataSourcefreePoolSize-upperBound
92.132 externalWebtDataSourcefreePoolSize-lowerBound
92.133 externalWebtDataSourcefreePoolSize-highWaterMark
92.134 externalWebtDataSourcefreePoolSize-lowWaterMark
92.135 externalWebtDataSourcefreePoolSize-current
92.141 externalWebtDataSourcewaitingThreadCount-highWaterMark
92.142 externalWebtDataSourcewaitingThreadCount-lowWaterMark
92.143 externalWebtDataSourcewaitingThreadCount-current
92.151 externalWebtDataSourceereConnectCount-count
92.161 externalWebtDataSourceetotalConnectionCount-count

```

92.171 externalWebtDataSourcefreeConnectionCount-count
92.181 externalWebtDataSourceactiveConnectionCount-count
101.1 subjectMoobjectName
101.2 subjectMosubjectNames
101.3 subjectMotroubles
101.4 subjectMoownTroubles
102.1 securityDomainMoobjectName
102.2 securityDomainModomainName
102.3 securityDomainMopolicys
102.4 securityDomainMosubjects
102.5 securityDomainMotroubles
102.6 securityDomainMoownTroubles
102.7 securityDomainModescription
103.1 policyMoobjectName
103.2 policyMopolicyIds
103.3 policyMotroubles
103.4 policyMoownTroubles
104.1 securityMoobjectName
104.2 securityMocurrentDomain
104.3 securityMosecurityDomains
104.4 securityMotroubles
104.5 securityMoownTroubles
105.1 jMSEngineMojMSResource
105.2 jMSEngineMoengineName
105.3 jMSEngineMoobjectName
105.4 jMSEngineMotroubles
105.5 jMSEngineMoownTroubles

```

A.3. TMAX-JEUS8.0-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 }
j2EEServerenginesFromDescriptor OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString

```

```

ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""
 ::= {   j2EEServer 10   }
j2EEServerdistributedModules OBJECT-TYPE
SYNTAX    SEQUENCE OF DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""
 ::= {   j2EEServer 15   }
j2EEServernodeName OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""
 ::= {   j2EEServer 17   }
j2EEServerappPaths OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""
 ::= {   j2EEServer 18   }

-----
-- 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 }
appClientModuledescription 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 }
eJBModuleeejbs 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 }
eJBModuleeejbCount 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 useed 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 useed 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 useed 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 rolledback"
::= {    statefulSessionBean 141    }
statefulSessionBeantimeoutRolledbackCount-count    OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "the number of the transactions that is rolledback 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 useed 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 useed 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 useed in connection pool
of this bean"
::= { statefulSessionBean 243 }
statefulSessionBeanfileDBSizeCount-highWaterMark OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the biggest size of the file that contains the beans that is passivated"

::= { statefulSessionBean 251 }

```

```

statefulSessionBeanfileDBSizeCount-lowWaterMark OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the smallest size of the file that contains the beans that is passivated"

    ::= { statefulSessionBean 252 }
statefulSessionBeanfileDBSizeCount-current OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the current size of the file that contains the beans that is passivated"

    ::= { statefulSessionBean 253 }

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

```

```

statelessSessionBeantotalCount-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 }
statelessSessionBeantotalCount-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 }
statelessSessionBeantotalCount-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 }

webModuleContextGroupName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard object names of the context group on which this Web Module

```

```

is deployed"
    ::= { webModule 6 }
webModulecontextGroup OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the names of the context group on which this Web Module is deployed"
    ::= { webModule 7 }
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 deployed 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 }
resourceAdapterModulemin OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { resourceAdapterModule 10 }
resourceAdapterModulemax OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { resourceAdapterModule 11 }
resourceAdapterModulestep OBJECT-TYPE
    SYNTAX DisplayString

```

```

ACCESS read-write
STATUS mandatory
DESCRIPTION
    ""
 ::= { resourceAdapterModule 12 }
resourceAdapterModulekeepAliveTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
 ::= { resourceAdapterModule 13 }
resourceAdapterModulereleaseTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
 ::= { resourceAdapterModule 14 }
resourceAdapterModulerejectTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
 ::= { resourceAdapterModule 15 }

-----
-- 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 }

-----
-- jCResource
-----

jCResource OBJECT IDENTIFIER
    ::= { jeus 22 }

jCResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { jCResource 1 }
jCResourceecMInfo OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { jCResource 4 }

-----
-- jCConnectionFactory
-----

jCConnectionFactory OBJECT IDENTIFIER
    ::= { jeus 23 }

jCConnectionFactoryobjectName OBJECT-TYPE

```



```

SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    " "

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

::= { jCAConnectionFactory 2 }
jCAConnectionFactorymin OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

::= { jCAConnectionFactory 3 }
jCAConnectionFactorymax OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "

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

::= { jCAConnectionFactory 5 }
jCAConnectionFactorymaxDisposableCount OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

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

```

```

::= { jCAConnectionFactory 7 }
jCAConnectionFactorywaitingTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

::= { jCAConnectionFactory 8 }
jCAConnectionFactorypooledTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

::= { jCAConnectionFactory 9 }
jCAConnectionFactorydissociationtimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

::= { jCAConnectionFactory 10 }
jCAConnectionFactoryinvalidationtimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

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

::= { jCAConnectionFactory 13 }
jCAConnectionFactoryuseWrapper OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

::= { jCAConnectionFactory 14 }

-----
-- jCAManagedConnectionFactory
-----

```

```

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 }

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

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 }

JDBCDataSourceconfig OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the config information about this JDBC Data Source"
    ::= { JDBCDataSource 3 }

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

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 }
jdbcDataSourceCereConnectCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the reconnections to this JDBC Data Source"
    ::= { jdbcDataSource 151 }
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 }
jdbcDataSourceJdbcDataSource OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
        ::= { jdbcDataSource 181 }

-----
-- 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 }

jMSResourceclusterInfo OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the information about the cluster of JMS server"
    ::= { jmsresource 3 }

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 }
jmsResourcejmsClientResourceNames OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the list of the names of JMS client resources that are belong to this JMS
        Resource"
    ::= { jmsResource 7 }
jmsResourcefreeMemory OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { jmsResource 9 }
jmsResourcetotalMemory OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { jmsResource 10 }
jmsResourceconnections-sessions-messageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that are processed in each sessions"
    ::= { jmsResource 101 }
jmsResourceconnections-sessions-pendingMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that reside in each sessions without
        acknowledgement"
    ::= { jmsResource 111 }
jmsResourceconnections-sessions-expiredMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that are expired in each sessions"
    ::= { jmsResource 121 }
jmsResourceconnections-sessions-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"
 ::= { jMSResource 131 }
jMSResourceconnections-sessions-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"
 ::= { jMSResource 132 }
jMSResourceconnections-sessions-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"
 ::= { jMSResource 133 }
jMSResourceconnections-sessions-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"
 ::= { jMSResource 134 }
jMSResourceconnections-sessions-durableSubscriptionCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the durable subscribers that are created in each sessions"

 ::= { jMSResource 141 }
jMSResourceconnections-sessions-producers-destination OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "name of the destination to which each producers send messages"
 ::= { jMSResource 151 }
jMSResourceconnections-sessions-producers-messageCount-count OBJECT-TYPE

```

```

SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that are processed in each producers"
 ::= { jMSResource 161 }
jMSResourceconnections-sessions-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"
        ::= { jMSResource 171 }
jMSResourceconnections-sessions-producers-expiredMessageCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the messages that are expired in each producers"
        ::= { jMSResource 181 }
jMSResourceconnections-sessions-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"
        ::= { jMSResource 191 }
jMSResourceconnections-sessions-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"
        ::= { jMSResource 192 }
jMSResourceconnections-sessions-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"
        ::= { jMSResource 193 }
jMSResourceconnections-sessions-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"
 ::= { jMSResource 194 }
jMSResourceconnections-sessions-consumers-origin OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "name of the destination that each consumers connect to"
 ::= { jMSResource 201 }
jMSResourceconnections-sessions-consumers-messageCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that are processed in each consumers"
 ::= { jMSResource 211 }
jMSResourceconnections-sessions-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"
 ::= { jMSResource 221 }
jMSResourceconnections-sessions-consumers-expiredMessageCount-count OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "the number of the messages that are expired in each consumers"
 ::= { jMSResource 231 }
jMSResourceconnections-sessions-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"
 ::= { jMSResource 241 }
jMSResourceconnections-sessions-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"
        ::= { jMSResource 242 }
jMSResourceconnections-sessions-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"
        ::= { jMSResource 243 }
jMSResourceconnections-sessions-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"
        ::= { jMSResource 244 }

-----
-- 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 }
jTAResourceaverageExecutionTime OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "average processing time of the transactions that are processed on J2EE
        Server"
 ::= { jTAResource 2 }
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   }
jTAResourceheuristicRollback OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   write-only
    STATUS   mandatory
    DESCRIPTION
        ""

 ::= {   jTAResource 9   }
jTAResourceresolution OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-write
    STATUS   mandatory
    DESCRIPTION
        ""

 ::= {   jTAResource 10   }
jTAResourcethreadPool OBJECT-TYPE
    SYNTAX   DisplayString
    ACCESS   read-only
    STATUS   mandatory
    DESCRIPTION
        ""

 ::= {   jTAResource 11   }
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 decision
        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 }
jTAResourceheuristicRolledbackCount-count OBJECT-TYPE
    SYNTAX DisplayString

```

```

ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "the number of the transactions that cause huristic rolled-back"
::= {   jTAResource 191  }

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 }
jMSConnectionResourceSessionCount-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 }
jMSProducerResourcessageWaitTime-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 }
jMSProducerResourcessageWaitTime-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 }
jMSProducerResourcessageWaitTime-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 }
jMSProducerResourcessageWaitTime-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 comsumers 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 }
jMSSessionResourcmessageWaitTime-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 }
jMSSessionResourcmessageWaitTime-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 }
jMSSessionResourcmessageWaitTime-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 }
jMSSessionResourcmessageWaitTime-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 }

eJBEngineMostats OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { eJBEngineMo 3 }

-----

-- contextGroupMo
-----

contextGroupMo OBJECT IDENTIFIER
    ::= { jeus 51 }

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

contextGroupMowebModules OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard object names of the Web Modules that is deployed on this

```

```

Context Group"
    ::= { contextGroupMo 2 }
contextGroupMowebListeners OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard object names of the Listeners that is registered on this
Context Group"
    ::= { contextGroupMo 3 }
contextGroupMosessionContainer OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { contextGroupMo 4 }
contextGroupMosessionTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { contextGroupMo 5 }
contextGroupModeployObjects OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { contextGroupMo 8 }

-----
-- dBConnectionPoolMo
-----

dBConnectionPoolMo OBJECT IDENTIFIER
    ::= { jeus 52 }

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

```



```

SYNTAX DisplayString
ACCESS read-write
STATUS mandatory
DESCRIPTION
    "the value of the interval which Web Engine considers as BLOCK when the
db connection of this DB Connection Pool executes a SQL query"
 ::= { dBConnectionPoolMo 2 }
dBConnectionPoolModBConnectionPoolInfo-dBConnectionInfo OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { dBConnectionPoolMo 3 }
dBConnectionPoolModBConnectionPoolInfo-currentPoolSize OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { dBConnectionPoolMo 4 }
dBConnectionPoolModBConnectionPoolInfo-freeConnectionNum OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { dBConnectionPoolMo 5 }
dBConnectionPoolModBConnectionPoolInfo-activeConnectionNum OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { dBConnectionPoolMo 6 }
dBConnectionPoolModBConnectionPoolInfo-connectionPoolID OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { dBConnectionPoolMo 7 }
dBConnectionPoolModBConnectionPoolInfo-connectionPoolingRule OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION

```

```

    ""
    ::= { dBConnectionPoolMo 8 }
dBConnectionPoolModBConnectionPoolInfo-connectionUrl OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { dBConnectionPoolMo 9 }
dBConnectionPoolModBConnectionPoolInfo-driverClassName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { dBConnectionPoolMo 10 }
dBConnectionPoolModBConnectionPoolInfo-connectionArgs OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { dBConnectionPoolMo 11 }
dBConnectionPoolModBConnectionPoolInfo-initCapacity OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { dBConnectionPoolMo 12 }
dBConnectionPoolModBConnectionPoolInfo-maxCapacity OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { dBConnectionPoolMo 13 }
dBConnectionPoolModBConnectionPoolInfo-incrementRate OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { dBConnectionPoolMo 14 }
dBConnectionPoolModBConnectionPoolInfo-maxIdleTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only

```

```

STATUS    mandatory
DESCRIPTION
    ""

 ::= { dBConnectionPoolMo 15 }
dBConnectionPoolModBConnectionPoolInfo-dynamicIncrement OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""

 ::= { dBConnectionPoolMo 17 }
dBConnectionPoolModBConnectionPoolInfo-connectionTimeOut OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""

 ::= { dBConnectionPoolMo 18 }
dBConnectionPoolModBConnectionPoolInfo-loginDelay OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""

 ::= { dBConnectionPoolMo 19 }
dBConnectionPoolModBConnectionPoolInfo-closeDelay OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""

 ::= { dBConnectionPoolMo 20 }
dBConnectionPoolModBConnectionPoolInfo-closeLongActiveConnection OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""

 ::= { dBConnectionPoolMo 21 }
dBConnectionPoolModBConnectionPoolInfo-maxActiveTime OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""

 ::= { dBConnectionPoolMo 22 }
dBConnectionPoolModBConnectionPoolInfo-maxUseCount OBJECT-TYPE

```

```

SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

::= { dBConnectionPoolMo 23 }
dBConnectionPoolModBConnectionPoolInfo-checkQuery OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

::= { dBConnectionPoolMo 24 }
dBConnectionPoolMomin OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-write
STATUS mandatory
DESCRIPTION
    ""

::= { dBConnectionPoolMo 26 }
dBConnectionPoolMomax OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-write
STATUS mandatory
DESCRIPTION
    ""

::= { dBConnectionPoolMo 28 }
dBConnectionPoolMostep OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-write
STATUS mandatory
DESCRIPTION
    ""

::= { dBConnectionPoolMo 30 }
dBConnectionPoolModBConnectionPoolInfo-maxAliveTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

::= { dBConnectionPoolMo 31 }
dBConnectionPoolMomaxIdleTime OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-write
STATUS mandatory
DESCRIPTION
    ""

```

```

::= { dBConnectionPoolMo 33 }
dBConnectionPoolMomaxAliveTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

::= { dBConnectionPoolMo 35 }
dBConnectionPoolModynamicIncrement OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

::= { dBConnectionPoolMo 37 }
dBConnectionPoolMogetConnectionTimeout OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

::= { dBConnectionPoolMo 38 }
dBConnectionPoolMocloseLongActiveConnection OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

::= { dBConnectionPoolMo 39 }
dBConnectionPoolMomaxActiveTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

::= { dBConnectionPoolMo 40 }
dBConnectionPoolMomaxUseCount OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "

::= { dBConnectionPoolMo 42 }
dBConnectionPoolMoactiveThreadCount-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 DB
Connection Pool"
        ::= { dBConnectionPoolMo 101 }
dBConnectionPoolMoblockThreadCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of the threads that are blocked in thread pool of this DB
Connection Pool"
        ::= { dBConnectionPoolMo 111 }
dBConnectionPoolMoallThreadCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "the number of all threads that are in thread pool of this DB Connection
Pool"
        ::= { dBConnectionPoolMo 121 }

-----
-- 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 }
threadPoolMostep OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { threadPoolMo 7 }
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 }
threadPoolMomaxWaitQueue OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { threadPoolMo 13 }
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 }
webEngineMocontextGroups OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard object names of Context Groups that are deployed on this Web
        Engine"
    ::= { webEngineMo 2 }
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 }
webEngineModBConnectionPool OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard object names of db connection pools in this Web Engine"
    ::= { webEngineMo 5 }
webEngineMocontextGroupNames OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { webEngineMo 6 }
webEngineMosessionContainer OBJECT-TYPE
    SYNTAX DisplayString

```

```

ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

::= { webEngineMo 7 }
webEngineMowebtConnectionGroup OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        ""

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

    ::= { webEngineMo 9 }
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 }
webEngineMocheckDbConnectionPool OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        ""

    ::= { webEngineMo 17 }

```

```

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 }

-----
-- webtConnectionGroupMo
-----

webtConnectionGroupMo OBJECT IDENTIFIER
    ::= { jeus 56 }

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

        ::= { webtConnectionGroupMo 1 }
webtConnectionGroupMototalConnectionCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "

        ::= { webtConnectionGroupMo 101 }

```

```

webtConnectionGroupMofreeConnectionCount-count  OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        " "
    ::= { webtConnectionGroupMo 111 }
webtConnectionGroupMousedConnectionCount-count  OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        " "
    ::= { webtConnectionGroupMo 121 }

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

jMSClientResource OBJECT IDENTIFIER
    ::= { jeus 61 }

jMSClientResourceobjectName  OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
    ::= { jMSClientResource 1 }
jMSClientResourcehostAddress  OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "remote address of the socket to which clients are connected"
    ::= { jMSClientResource 2 }
jMSClientResourceport  OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "remote port of the socket to which clients are connected"
    ::= { jMSClientResource 3 }
jMSClientResourcejMSCConnectionResourceNames  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 }
jMSClientResourceNamePartString OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        " "
        ::= { jMSClientResource 6 }
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 }
jMSQueueConnectionFactoryResourceName OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        " "
        ::= { jMSQueueConnectionFactoryResource 3 }

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

jMSQueueDestinationResource OBJECT IDENTIFIER
    ::= { jeus 63 }

```

```

jmsQueueDestinationResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "JMX-standard MBean object name"
        ::= { jmsQueueDestinationResource 1 }
jmsQueueDestinationResourceName 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 }
jmsQueueDestinationResourcetype 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 }
jmsQueueDestinationResourceremainingMessages OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only

```

```

STATUS    mandatory
DESCRIPTION
    ""

::= {   jMSQueueDestinationResource 10   }
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 }

-----
-- jMSDurableSubscriberResource
-----

jMSDurableSubscriberResource OBJECT IDENTIFIER
    ::= { jeus 64 }

jMSDurableSubscriberResourceobjectName OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION

```

```

        "JMX-standard MBean object name"
        ::= { jMSDurableSubscriberResource 1 }
jMSDurableSubscriberResourceName OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the name of JMS Durable Subscriber"
        ::= { jMSDurableSubscriberResource 2 }
jMSDurableSubscriberResourceclientID OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the client ID of JMS Durable Subscriber"
        ::= { jMSDurableSubscriberResource 3 }
jMSDurableSubscriberResourceremainingMessages OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the number of the messages which are alive in durable subscriber"
        ::= { jMSDurableSubscriberResource 5 }
jMSDurableSubscriberResourceselector OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "selector value which is configured in durable subscriber"
        ::= { jMSDurableSubscriberResource 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 }
jMSTopicConnectionFactoryResourceName OBJECT-TYPE
    SYNTAX  DisplayString

```

```

ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    ""
 ::= {   jMSTopicConnectionFactoryResource 3   }

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

jMSTopicDestinationResource OBJECT IDENTIFIER
 ::= {   jeus 66   }

jMSTopicDestinationResourceobjectName OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "JMX-standard MBean object name"
 ::= {   jMSTopicDestinationResource 1   }
jMSTopicDestinationResourceobjectName 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   }
jMSTopicDestinationResourceobjectName OBJECT-TYPE
SYNTAX    DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "the type of this JMS Destination"
 ::= {   jMSTopicDestinationResource 4   }
jMSTopicDestinationResourcejMSDurableSubscriberResourceNames OBJECT-TYPE
SYNTAX    SEQUENCE OF DisplayString
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "the names of JMS Durable Subscribers that belong to JMS Destination"

```

```

::= { jMSTopicDestinationResource 6 }
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 }
threadPoolthreadOperationInfo OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { threadPool 2 }
threadPoolmax OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { threadPool 4 }
threadPoolperiod OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        " "
    ::= { threadPool 6 }

-----
-- jEUSManager
-----

jEUSManager OBJECT IDENTIFIER
    ::= { jeus 77 }

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

```

```

DESCRIPTION
    "JMX-standard MBean object name"
 ::= { jEUSManager 1 }
jEUSManagerserverVersion OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the version of JEUS that is being used"
 ::= { jEUSManager 2 }
jEUSManagerserverVendor OBJECT-TYPE
    SYNTAX  DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "the J2EE platform vendor of this JEUS Manager"
 ::= { jEUSManager 3 }
jEUSManagerjavaVMs OBJECT-TYPE
    SYNTAX  SEQUENCE OF DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "JMX-standard object names of the JVMs on which JEUS Manager is running"
 ::= { jEUSManager 4 }
jEUSManagerjeusServices OBJECT-TYPE
    SYNTAX  SEQUENCE OF DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        " "
 ::= { jEUSManager 5 }
jEUSManagerj2eeServers OBJECT-TYPE
    SYNTAX  SEQUENCE OF DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        " "
 ::= { jEUSManager 6 }
jEUSManagernodesFromDescriptor OBJECT-TYPE
    SYNTAX  SEQUENCE OF DisplayString
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        " "
 ::= { jEUSManager 9 }
jEUSManageraliveNodeNames OBJECT-TYPE
    SYNTAX  SEQUENCE OF DisplayString

```

```

ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""
::= { jEUSManager 10 }
jEUSManagerjeusHome OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""
::= { jEUSManager 11 }
jEUSManagerpID OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""
::= { jEUSManager 12 }
jEUSManagerj2eeServerNames OBJECT-TYPE
SYNTAX SEQUENCE OF DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""
::= { jEUSManager 15 }

-----
-- webServerInfo
-----

webServerInfo OBJECT IDENTIFIER
::= { jeus 81 }

webServerInfoobjectName OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""
::= { webServerInfo 1 }
webServerInfonodeInfo OBJECT-TYPE
SYNTAX DisplayString
ACCESS read-only
STATUS mandatory
DESCRIPTION
    ""

```



```

 ::= { webServerInfo 2 }
webServerInfosvrAllInfo OBJECT-TYPE
    SYNTAX SEQUENCE OF DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
 ::= { webServerInfo 3 }
webServerInfosvrCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
 ::= { webServerInfo 101 }
webServerInfoexecCount-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
 ::= { webServerInfo 111 }
webServerInfoavgTime-count OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
 ::= { webServerInfo 121 }
webServerInfoavgTime-maxTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
 ::= { webServerInfo 122 }
webServerInfoavgTime-minTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        " "
 ::= { webServerInfo 123 }
webServerInfoavgTime-totalTime OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory

```

```

DESCRIPTION
    ""

    ::= {  webServerInfo 124  }

-----

-- 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  }

```

```

securityDomainMopolicys 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 }

-----
-- jMSEngineMo
-----

jMSEngineMo OBJECT IDENTIFIER
    ::= { jeus 105 }

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

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

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

    ::= { jMSEngineMo 3 }

```

END

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