



JMX in J2EE applications

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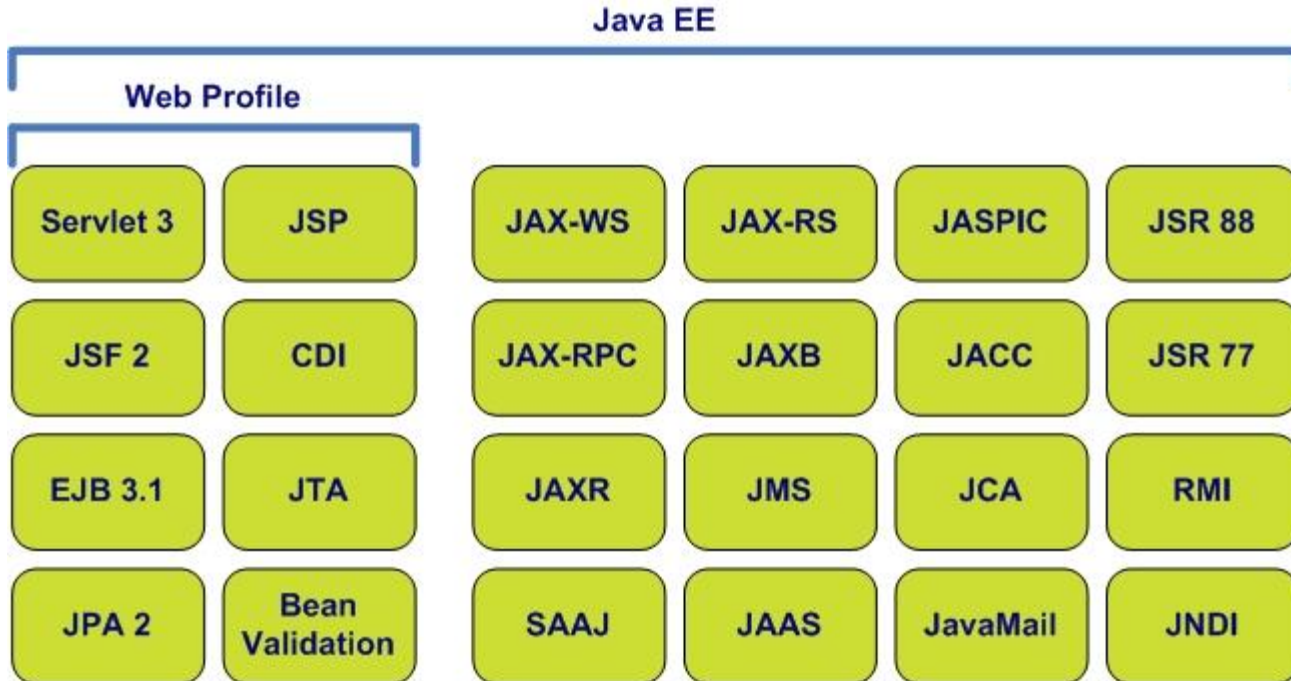
Agenda

- ◆ Overview of the JMX technology
- ◆ Introducing MBeans
- ◆ Notifications
- ◆ Bound Properties and custom listeners
- ◆ Notifications vs Bound Properties
- ◆ Remote management
- ◆ Sample application with J2EE, JMX, WebLogic

Overview of the JMX technology

- ◆ The JMX technology provides a simple, standard way of managing resources such as applications, devices, and services. Because the JMX technology is dynamic, you can use it to monitor and manage resources as they are created, installed and implemented. You can also use the JMX technology to monitor and manage the Java Virtual Machine.

Java Platform, Enterprise Edition



Application Servers and Servlet containers

- ◆ Red Hat JBoss
- ◆ Oracle WebLogic Server
- ◆ Oracle GlassFish Server
- ◆ IBM WebSphere
- ◆ Apache Tomcat
- ◆ Apache Tommy
- ◆ Jetty



Application

- ◆ Trader makes operations
- ◆ Each operation has price
- ◆ Trader has limit of total cost of operations
- ◆ Regulator monitors operations and sets status.
- Status: PERMITTED, NOT_PERMITTED.

PERMITTED:

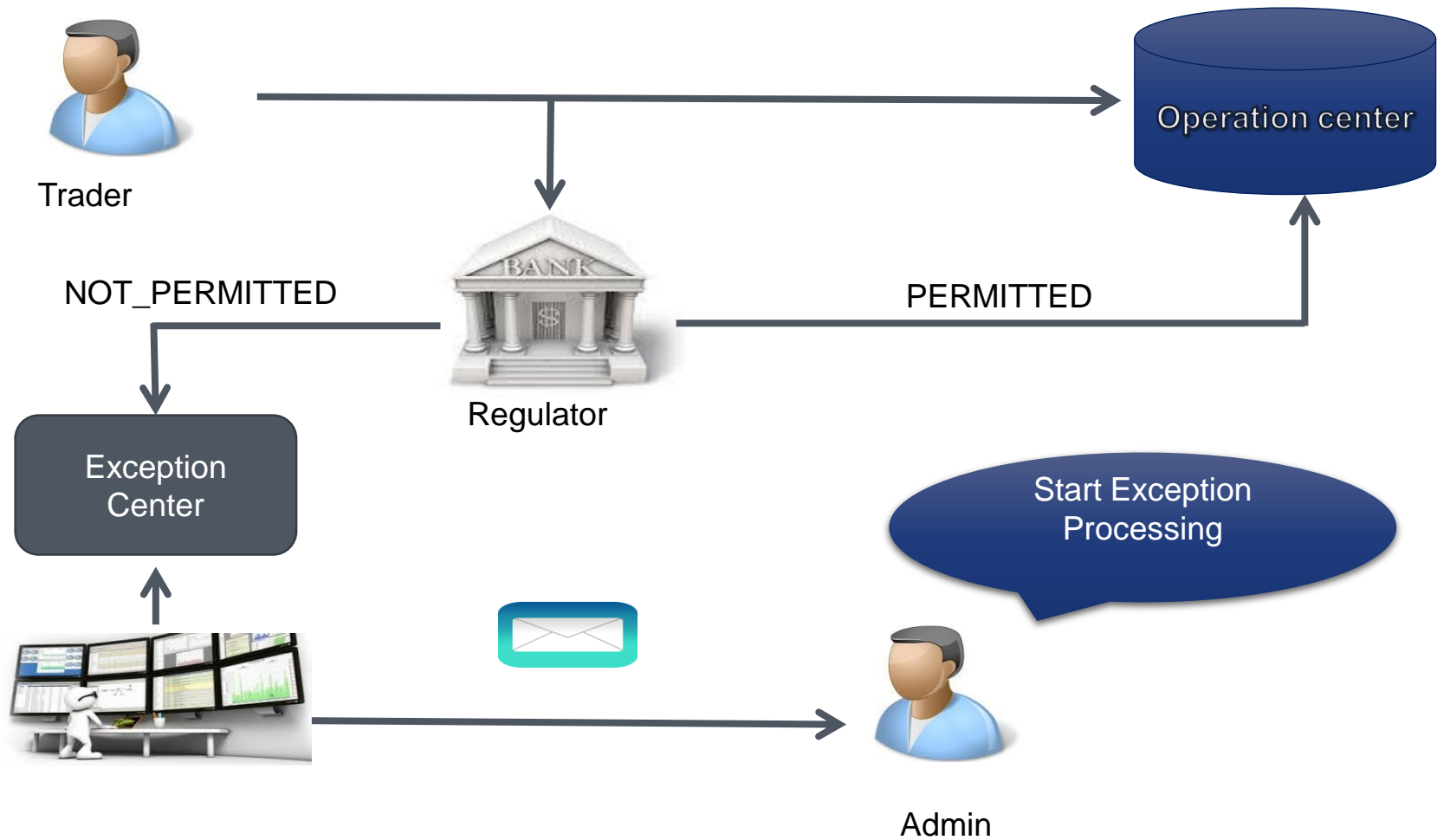
sum of operations \leq trader's limit

NOT_PERMITTED:

Sum of operations $>$ trade's limit

Application

- PERMITTED should be processed
- NOT_PERMITTED should be processed in Exception Center
- Exception center works only on Monday,
- If there are a lot of NOT_PERMITTED operations then email notification should be sent to Exception Center Admin.
- Admin should start Exception center manually





THANK YOU



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