



## INFORMATION SHEET ON I.T. PROJECTS

Last update: 08/01/2007

<b>PROJECT</b> TAXUDMON (TAXUD Monitoring of BEA WebLogic servers)
<b>SUMMARY</b> The TAXUDMON system enhances the embedded management and monitoring capabilities (Mbeans) of WebLogic servers by storing in a database the retrieved values of monitored objects. The system allows multi-user access and provides a GUI with colour-coded alarming on interactive monitoring.
<b>LEGAL BASIS</b> <b>General</b> none <b>Mandatory use of I.T.</b> none
<b>DESCRIPTION</b> <u>Contents:</u> For centrally developed applications, the strategy of DG TAXUD is to host the information systems at DIGIT/DC and to make use of the WebLogic application servers as supporting infrastructure. The TAXUDMON application, which itself is an application served by a dedicated WebLogic server, exploits the available management beans of predefined WebLogic servers to remotely request the value of indicators (attributes of management objects). Retrieved values are used for near-line display and stored to an Oracle database for post-processing and historical analysis. The frequency and set of indicators to retrieve are configurable. <u>Process:</u> <ul style="list-style-type: none"><li>- Every 5 minutes (configurable), the TAXUDMON server requests the set of predefined (configurable) indicators via standard Java JMX.</li><li>- Retrieved values are stored in an Oracle database</li><li>- The TAXUDMON server hosts a web server (http daemon) and displays a graphical representation of the WebLogic servers (WLS) monitored this way. There is one "LED-object" displayed per server. An alert colour-code is used to reflect the current status of the WLS, compared to previous data: <i>green</i> : no alarm <i>orange</i> : one alarm (first occurrence of an alarm) <i>red</i> : at least two consecutive alarms (two or more consecutive occurrences of the same alarm) An alarm for a monitored object's attribute is defined by specifying thresholds for the acceptable range of the value retrieved when requesting this indicator.</li><li>- The LED-object displayed is the top-level object of all Mbeans related to one WLS. This object can be further expanded to retrieve the object(s) causing the alarm(s)</li></ul>
<b>STATUS</b> - In production since 07/2006.
<b>PLANNED ACTIVITIES</b> - 2007: enhancement of the post-processing capabilities by allowing historical and statistical reporting
<b>TECHNICAL INFORMATION</b> <u>Technical infrastructure:</u> <ul style="list-style-type: none"><li>- TAXUDMON on dedicated WebLogic 8.1 server, running on Sun Solaris OS 5.9</li><li>- Oracle 9.1 database system,</li><li>- PC clients use their Internet browser to connect to the TAXUDMON server</li></ul> <u>Comments:</u> -