



BEA WebLogic RFID Enterprise Server™

Release Notes

Version 2.0 SP1™
Revised: January, 2007

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WebLogic RFID Enterprise Server Known Issues and Recommendations 1

Known Issues 1

WebLogic RFID Enterprise Server Known Issues and Recommendations

WebLogic RFID Enterprise Server 2.0 is the first release of the RFID Enterprise Server from BEA Systems. Previously, this product was the ConnectTerra RFTagAware Enterprise Server. You can now reach technical support through the standard BEA means. Select **Support** on the BEA Web site, at www.bea.com, for more information.

The following sections document known problems and workarounds in WebLogic RFID Enterprise Server.

Known Issues

The following section describes problems that were found in WebLogic RFID Enterprise Server 2.0 and 2.0 Service Pack 1. Entries include a description of the problem, and a workaround or solution where appropriate.

Tracking Number	Description and Workaround
	<p>A new column has been added to the EPCIS_EVENT table. This column can be added using one of the following SQL statements:</p> <ul style="list-style-type: none"> • Oracle: <pre>ALTER TABLE epcis_event ADD (timezone_offset varchar2(10));</pre> • PointBase <pre>ALTER TABLE epcis_event ADD timezone_offset VARCHAR2(10);</pre>
CR308012	<p>When using the manual initialization scripts to initialize an Oracle database, some columns are incorrectly initialized as datatype DATE instead of TIMESTAMP.</p> <p>To correct this problem, use the following SQL commands to set the columns to the correct data type:</p> <pre>alter table epcis_event modify(event_time TIMESTAMP, record_time TIMESTAMP); alter table subscription modify(current_run_started TIMESTAMP, initial_record_time TIMESTAMP, last_successful_run TIMESTAMP);</pre> <p>This problem does not occur when you use the Configuration Wizard to create the database.</p>
CR295778	<p>The <code>eventTimeZoneOffset</code> field has been added to events in order to comply with <i>Proposed Specification for EPCIS 1.0</i> (November 27, 2006). Although the specification states that it is required, it is being treated as optional in Service Pack 1 in order to provide backwards compatibility with the Enterprise Server 2.0 release.</p> <p>On capture, if this field is included it is stored in the database. If the field is not included an attempt is made to derive it from the <code>eventTime</code> field. If it cannot be derived from the <code>eventTime</code> field, the local server's offset is used.</p> <p>This field is always included in query and subscription results, though it may be empty if there is no value in the database (for events captured in a previous release of RFID Enterprise Server).</p>

Tracking Number	Description and Workaround
CR295776	<p data-bbox="366 388 1237 442">EPC-matching parameter names and meanings have changed in Service Pack 1 to match the <i>Proposed Specification for EPCIS 1.0</i> (November 27, 2006). These changes include:</p> <ul data-bbox="366 456 1237 690" style="list-style-type: none"><li data-bbox="366 456 1237 565">• <code>MATCH_epc</code> and <code>MATCH_childEPC</code> have been combined as <code>MATCH_epc</code>. Queries including this parameter return any <code>ObjectEvent</code>, <code>AggregationEvent</code>, or <code>TransactionEvent</code> where an EPC in the <code>epcList</code> or <code>childEPCs</code> field matches one of the EPC pattern(s) or URI(s) specified.<li data-bbox="366 579 1237 690">• <code>MATCH_anyEPC</code> has been added. Queries including this parameter return any <code>ObjectEvent</code>, <code>AggregationEvent</code>, or <code>TransactionEvent</code> where the <code>parentID</code> or any EPC in the <code>epcList</code> or <code>childEPCs</code> field matches one of the EPC pattern(s) or URI(s) specified. <p data-bbox="366 708 1237 762">The following parameters from the 2.0 release of Enterprise Server are preserved for backwards compatibility:</p> <ul data-bbox="366 775 1237 895" style="list-style-type: none"><li data-bbox="366 775 1237 829">• <code>MATCH_childEPC</code> is retained and returns <code>AggregationEvents</code> whose child EPC list contains an EPC field matching one of the pattern(s) or URI(s) specified.<li data-bbox="366 843 1237 895">• <code>MATCH_epc</code> is renamed <code>MATCH_objectEventEPC</code> and returns <code>ObjectEvents</code> where one of the EPC fields matches one of the EPC pattern(s) or URI(s) specified.

Tracking Number	Description and Workaround
CR295063	<p>Some steps can be taken to optimize the performance of Microsoft SQL Server with Enterprise Server.</p> <p>Workaround or solution:</p> <ul style="list-style-type: none">• When using SQL Server 2005 it is recommended that Service Pack 2 be applied, as it addresses some known performance issues with SQL Server.• Run the following script. The script creates one non-clustered index and statistics, which improves the performance of the database: <pre>CREATE NONCLUSTERED INDEX [_dta_index_uri_epc] ON [epc] ([uri] ASC, [epc_id] ASC) INCLUDE ([company_prefix], [epc_class], [pure_identity_uri], [reference], [scheme], [serial_number]) WITH (SORT_IN_TEMPDB = OFF, DROP_EXISTING = OFF, IGNORE_DUP_KEY = OFF, ONLINE = OFF) ON [PRIMARY] CREATE STATISTICS [_dta_stat_uri_epc] ON [epc]([epc_id], [uri])</pre>

Tracking Number	Description and Workaround
CR299046	<p data-bbox="366 387 1201 440">Enterprise Server EPCIS xsds and wsdl have been updated to conform to the <i>Proposed Specification for EPCIS 1.0</i> (November 27, 2006).</p> <p data-bbox="366 456 1231 539">Users who have created a Web services client using these files will need to recompile/recreate their client to be compatible with the Service Pack 1 release. The most significant changes are as follows:</p> <ul data-bbox="366 553 1231 1234" style="list-style-type: none"> <li data-bbox="366 553 1231 637">• In <code>BusinessScope.xsd</code>, <code>CorrelationInformationType</code> and <code>BusinessServiceType</code> have been changed to <code>CorrelationInformation</code> and <code>BusinessService</code>, respectively. <li data-bbox="366 651 1231 791">• In <code>StandardBusinessDocumentHeader.xsd</code>, <code>StandardBusinessDocumentHeaderType</code> and <code>StandardBusinessDocumentType</code> have been changed to <code>StandardBusinessDocumentHeader</code> and <code>StandardBusinessDocument</code>, respectively. <li data-bbox="366 805 1231 916">• In <code>EPCIS.xsd</code>, <code>eventTimeZoneOffset</code> has been added to the definition of <code>EventListType</code>. It differs from the specification in that it includes the attribute <code>minOccurs='0'</code> for backwards compatibility with the previous version of Enterprise Server. <li data-bbox="366 930 1231 984">• In <code>EPCIS-query.xsd</code>, <code>QueryTooLargeException</code> was removed from the definition of <code>QueryResultsBody</code>. <li data-bbox="366 998 1231 1111">• In <code>EPCIS.wsdl</code>, the value of the name attribute of <code>wsdl:port</code> was changed from <code>EPCglobalEPCISService</code> to <code>EPCglobalEPCISServicePort</code> and the values of the <code>targetNamespace</code> and <code>xmlns:impl</code> attributes were changed from <code>urn:epcglobal:epcis-wsdl:xsd:1</code> to <code>urn:epcglobal:epcis:wsdl:1</code>. <li data-bbox="366 1124 1231 1234">• In <code>EPCIS-masterdata.xsd</code>, the definition of <code>AttributeType</code> is restricted due to a limitation in a third-party product. While the specification suggests that both of the following formats should be supported, only the first format is supported in this release: <pre data-bbox="404 1211 1170 1234"><attribute id="urn:epcglobal:epcis:mda:description">some text here</attribute></pre> <pre data-bbox="404 1272 917 1381"><attribute id="urn:epcglobal:epcis:mda:description"> <foo>bar</foo> <foo2>bar2</foo2> </attribute></pre>
CR30461	<p data-bbox="366 1411 1231 1465">If the account used by Enterprise Server to log in to the database server has DBA privileges, then the applications will stop working.</p> <p data-bbox="366 1480 623 1503">Workaround or solution:</p> <p data-bbox="366 1519 1231 1576">Make sure the account used by Enterprise Server to access the database does not have DBA privileges.</p>

Tracking Number	Description and Workaround
CR277574	<p>When starting the PointBase RDBMS, invoke the <code>startPointBase</code> and <code>startPointBaseConsole</code> scripts that are located in the <code>WL_HOME\common\bin</code> directory. Do not use the scripts that are located in the <code>BEA_HOME\user_projects\domains\DOMAIN_NAME\bin</code> directory.</p>
CR286935	<p>Uninstalling WebLogic RFID Enterprise Server does not remove the <code><domain-component-info></code> elements and their contents from the <code>BEA_HOME\user_projects\domains\DOMAIN_NAME\init-info\domain-info.xml</code>.</p> <p>If you remove Enterprise Server component deployments from the domain and then try to re-install them, you will not succeed.</p> <p>Workaround or Solution:</p> <p>Manually delete the <code><domain-component-info></code> elements and their contents from the <code>domain-info.xml</code> file that pertain to the WebLogic RFID Enterprise Server. Specifically, remove those named <i>Reporting Service</i>, <i>Event Service and Data Exchange Service</i>, <i>Serial Number Assignment Service</i>, and <i>Edge Management</i>.</p>
CR287825	<p>In the Master Data Administration Console, once a Master Data Type has entries associated with it, you cannot modify it in any way, including changing the field display order.</p> <p>Workaround or Solution:</p> <p>Export the Master Data Type, delete all its entries in the Console, change the sequence attribute in the Master Data Type Attribute Meta XML, and then re-import it.</p>
CR289184	<p>A <code>FatalDataStoreException</code> is thrown if you start WebLogic Enterprise Server before starting the database.</p>
CR289605	<p>In the Query Subscription Administration Console, when adding subscription parameters, the table displays 10 parameters per page; this is not configurable.</p>
CR289618 CR291543	<p>In the Query Subscription Administration Console, when selecting items from drop-down lists, if you select multiple items (this sometimes happens when using the mouse wheel), an exception is thrown.</p> <p>Workaround or Solution:</p> <p>Select only one item at a time. If possible, avoid using the mouse wheel when selecting items from drop-down lists.</p>
CR290724	<p>When capturing SGLN and GRAI tags with a <code>company_prefix</code> containing 12 digits, the <code>EPC.REFERENCE</code> field gets the value 0 instead of null.</p>

Tracking Number	Description and Workaround
CR284279	In this release of Enterprise Server, there is no QuickStart application, therefore, ignore the <code>quickstart</code> scripts located in the <code>RFID_ENTERPRISE_HOME\common\bin</code> directory.
CR281682	The <code>FILTER_VALUE</code> column is no longer in the Event repository. The filter value is only relevant when searching for tag EPCs; this release of Enterprise Server only allows searching on pure identity EPCs.
CR291842	When installing on UNIX, using a leading backslash (<code>\</code>) in the install directory path causes the Configuration Wizard to fail silently.
CR292047	<p>In the Query Subscription Administration Console, to use authentication on a JMS destination, enter the relevant properties in the Naming Service Properties text field.</p> <p>For example,</p> <pre>java.naming.security.authentication=<i>auth</i> java.naming.security.principal=<i>name</i> java.naming.security.credentials=<i>cred</i></pre> <p>Caution: The values will be stored unencrypted in the database. Therefore, you must either ensure the security of your database or consider the JMS queue password unimportant, if revealed.</p>
CR293031	If your PointBase database connection is lost, you must restart the Enterprise Server after restoring your database connection.
CR293561	<p>When using an Internet Explorer browser to access the Reporting Service or Serial Number Assignment Service Consoles, highlighting an item in a drop-down list and then scrolling rapidly using the mouse wheel may cause an unexpected error.</p> <p>Workaround or Solution:</p> <p>Start a new browser session.</p>
CR292759	The Configuration Wizard displays a list of all the JDKs found in BEA Home. When selecting a JDK for use with WebLogic RFID Enterprise Server 2.0, you must select a JDK version 1.5 or higher.
CR293614	When issuing a <code>poll()</code> request which includes Order By and Order Direction parameters, events will be ordered within each event group but not for the entire event list. The event list includes events grouped by Event Type.

Tracking Number	Description and Workaround
CR279910	<p>If you are using an Oracle database, before running the <code>initEventServiceDatabase</code> script, you must first uncomment this line in the <code>BEA_HOME\user_projects\domains\DOMAIN_NAME\config\kodo.properties</code> file:</p> <pre>#kodo.jdbc.DBDictionary: oracle (TimestampTypeName=TIMESTAMP)</pre>
CR294268	<p>In the Reporting Service Console, Location Selection Criteria > Search Locations table, pressing Enter, Add, or Delete after putting values in the Value text fields results in losing the values.</p> <p>Workaround or Solution:</p> <p>Create the full number of search criteria rows before putting values in the text fields.</p>
CR244182	<p>In the Edge Server Administration Console, the wrong ECSpec Subscriber subscription properties page might be displayed after selecting an ECSpec Subscriber to edit.</p> <p>Workaround or Solution:</p> <p>Click Cancel on the ECSpec Subscriber subscription properties page. Then re-select the ECSpec Subscriber edit link.</p>
CR288549	<p>When you first access the Master Data Administration Console from the Enterprise Server Home page, you will see the following error messages:</p> <pre><Oct 3, 2006 2:45:05 PM EDT> <Error> <netuix> <BEA-423266> <No setter for property :: encoding.> <Oct 3, 2006 2:45:10 PM EDT> <Error> <netuix> <BEA-423137> <There was an error loading the requested URI /PortalConfig/home/HomePage.jsp.></pre> <p>Subsequent accessing the Master Data Administration Console Home page displays the following error message:</p> <pre><Oct 3, 2006 2:45:10 PM EDT> <Error> <netuix> <BEA-423137> <There was an error loading the requested URI /PortalConfig/home/HomePage.jsp.></pre> <p>Workaround or Solution:</p> <p>Disregard these messages; they have no effect on the application.</p>
CR295191	<p>In the Edge Server Administration Console, PLC Stack Light RFID devices always display an UP Device Status regardless of their actual state.</p>

Tracking Number	Description and Workaround
CR295240	<p>If you are using Microsoft SQL Server 2005 and a Microsoft JDBC driver, the Configuration Wizard does not properly construct the connection URL (it lacks the database name component).</p> <p>Workaround or Solution:</p> <p>To use the Microsoft SQL Server 2005 JDBC driver, follow these steps:</p> <ol style="list-style-type: none"> Download and install the driver from the MSDN Web site (follow the Microsoft instructions). Edit this file, <code>C:\BEA_HOME\user_projects\applications\DOMAIN_NAME\kodo.ear\kodo.rar\META-INF\ra.xml</code>, by adding <code>;databasename=<db_name></code> to the Connection URL (replace <code><db_name></code> with the actual database name). Edit this file, <code>C:\BEA_HOME\user_projects\domains\DOMAIN_NAME\config\kodo.properties</code>, by adding <code>;databasename=<db_name></code> to the Connection URL (replace <code><db_name></code> with the actual database name). Add <code>sqljdbc.jar</code> to the classpath in the following database initialization scripts: <code>C:\BEA_HOME\user_projects\domains\DOMAIN_NAME\bin\initEventServiceDatabase</code> <code>C:\BEA_HOME\user_projects\domains\DOMAIN_NAME\bin\initSerialNumberDatabase</code> Add <code>sqljdbc.jar</code> to the <code>C:\BEA_HOME\user_projects\domains\DOMAIN_NAME\lib</code> directory. In the WebLogic Server Administration Console, delete the existing credential map: navigate to Security Realms > myrealm > Credential Mappings, select the check box next to the existing credential mapping Resource Identifier, and click Delete. In the WebLogic Server Administration Console, create a new credential map (click New), with these fields (leave the other fields blank): Remote Host = Connection URL (the same value as in the <code>ra.xml</code> and <code>kodo.properties</code> files) Local User = <code>rfiduser</code> Remote User and Remote Password = database login username and password Restart WebLogic Server. <p>Note: These steps also apply to all other supported JDBC drivers that are not shipped with the product.</p>

Tracking Number	Description and Workaround
CR295481	<p>Upon startup, the Enterprise Server displays multiple repeats of the following message in the console window:</p> <pre data-bbox="301 458 1166 591"><Oct 5, 2006 4:35:28 PM EDT> <Warning> <WorkManager> <BEA-002919> <Unable to find a WorkManager with name weblogic.wsee.mdb.DispatchPolicy. Dispatch policy weblogic.wsee.mdb.DispatchPolicy will map to the default WorkManager for the application bea_wls9_async_response></pre> <p>Workaround or Solution: Disregard these messages.</p>
CR291322	<p>When using Pointbase RDBMS as the enterprise data store, capture operations might yield the exception:</p> <pre data-bbox="301 770 1116 817">kodo.util.DataStoreException: Data exception -- row already exist in index I_EPC_M_URI on table EPC</pre> <p>Workaround or Solution: This exception is harmless; you can ignore it.</p>
CR296046	<p>When configuring a SQL Server database for use with the Enterprise Server, select a case-insensitive collation option (for example, <code>_CI</code>), otherwise, the database initialization scripts will fail. For more information on collation options, see SQL Server Books Online.</p>
