

E-speak Release Notes

Version A.03.14.00

Known Bugs

These *Release Notes* describe the symptoms and solutions to e-Speak issues. The issues are arranged in numerical order based on HP's internal issue tracking system. If you communicate with HP technical support about an issue, please refer to this number.

Issue #	Symptom	Solution
1758	The documentation does not mention the total number of concurrent connections the Core can support.	Under Windows NT™, e-Speak has been tested with 3,800 concurrent connections.
1926	You are unable to run sample applications.	Code in the sample directory is only for reference. The VFS Browser is a Visual J++ based application that cannot be ported forward in its current form until Visual J++ supports JDK1.2 APIs. Future revisions may re-implement the VFS Browser using Swing classes.
1949	When you try connect 100 clients simultaneously, Socket Exceptions occur.	Synchronously starting 100 clients and having them simultaneously connect to the Core causes timeouts; The system tries to simultaneously validate 100 digital signatures. To avoid this issue, space the connections over the course of a minute by inserting a random delay before each connection.

Issue #	Symptom	Solution
1969	Services advertised with very short attribute values may not be found.	<p>When advertising a service with an attribute that is an empty string (zero characters long), or one character long, e-Speak may be unable to find the service.</p> <p>You can avoid this issue by choosing attribute values that are at least two characters long.</p> <p>Attributes that are one character long can only be found by making the attribute type <code>Character</code> instead of <code>String</code>, or by surrounding the string constant in the constraint with double-quotation marks (") rather than single quotes.</p> <p>Attributes that are zero characters long can not be found when using Oracle as a persistent repository.</p>
2079	After you create a process using the Desktop, you close the Desktop and try to stop the Process Manager using the Windows NT™ Services dialog. The ESPM process in the Task Manager disappears, but the <code>jave.exe</code> process does not. Therefore, the Process Manager itself can not be stopped in this manner.	Kill the process by closing the command prompt window.
2085	On Windows NT™, <code>espeak.pl</code> depends upon the existence of a temporary directory named <code>\$ENV{SYSTEMDRIVE}\temp</code> (for example <code>C:\temp</code>) for creating temporary <code>.ini</code> files. If the directory does not exist, commands such as <code>espeak.pl core</code> or <code>espeak.pl dt</code> fails with a diagnostic message. However, if the same command is launched from the Windows NT™ Start button (for example, Start > Programs > E-speak > E-speak Desktop) you do not see the diagnostic because the window disappears too quickly.	Look at the shortcut target and run the same command from a command line prompt so any diagnostics are visible.

Issue #	Symptom	Solution
2150		<p>A new API is added to <code>Context.java</code>. This API would be <code>ServiceWrapper.rebind(String serviceName, Services);</code></p> <p>It internally recreates the service sessions to all the clients and the service gets restarted with the same URL.</p>
2175	<p>When you specify <code>vector[]</code> as a method return type in ESIDL, the IDL compiler does not generate an error message. When a client invokes this method in the service, the client eventually gets a timeout exception. The debug message indicates there is a serialization-related exception.</p> <p>A similar problem occurs if you specify <code>HashTable[]</code> as a return type.</p> <p>The IDL compiler should generate error messages indicating that these choices are invalid; otherwise users will expect them to work.</p>	This problem is currently being investigated.
2185	<p>While you send a number of messages continuously, the system hangs. This is an intermittent problem: the number of messages that hang the system varies; this bug cannot be consistently reproduced; and it does not occur on all machines.</p> <p>This may be a synchronization problem. If trace (<code>ESDebug</code>) is enabled, this problem does not occur.</p>	A patch has been submitted to fix this problem.

Issue #	Symptom	Solution
2191	<p>Services registered by JESI and Gateway Usage should be successfully invoked from the other component. This will increase the usability of Gateway Usage because it will provide a minimum set of useful features: creating vocabularies and accounts; registering services; and discovering services and invoking them.</p>	<p>This problem is currently being investigated.</p>
2213	<p>The existing messaging system in e-Speak does not support reliability: there is no guarantee that a message sent from one end is received at the other end.</p> <p>There was also no way to persistify messages at the client /service end.</p>	<p>This problem was resolved through the Reliable Messaging, which has been incorporated into JESI/SDK API.</p>
2230	<p>The system property <code>espeak_home</code> is passed to the Java Virtual Machine (JVM) using this command:</p> <pre>java -Despeak_home=<PATH OF ESPEAK_HOME> - Dnet.espeak.util.config.pat h=<CONFIG FILE PATH></pre> <p>The JVM does not pick up the configuration file from the <code><CONFIG FILE PATH></code>. Instead it picks up the configuration file from <code>ESPEAK_HOME/config</code>.</p>	<p>The behavior is by design. The search order for locating <code>espeak.cfg</code> is <code>ESPEAK_HOME</code>, then <code>net.espeak.util.config.path</code></p> <p>If you need to specify a different value for <code>espeak.cfg</code>, use the <code>net.espeak.util.config.file</code> environment setting.</p>
2257	<p>The <code>ESLogger</code> seems to use <code>BufferedStream</code> to log items. Until the buffer is full, it does not flush. If you want to log an error item and exit from program, the buffer does not get flushed and hence log file is not updated with the particular log item.</p>	<p>This issue is currently being investigated.</p>

Issue #	Symptom	Solution
2258	The performance of <code>ESAccessor[] ESCategoryFinder.find(String catname)</code> degrades with increasing tree size. <code>find</code> tries to return all the the categories matching a given name. Even if the first match is successful, it does a depth-first search to find all matching entries. <code>find</code> is currently performing the function of <code>findAll</code> .	This issue is currently being investigated.
2321	The thread package has been moved from <code>espeak.infra.core</code> to <code>espeak.util</code> .	N/A
-	This involves the service finder in J-ESI. When the finder constructor taking the connection and interface name (or contract) is used, the finder tries to verify whether the found service supports the interface. To do this, it sends a message to the service. The <code>find</code> method throws a <code>LookupFailedException</code> since it is not able to confirm whether the service supports a specific interface.	<p>The service should be up and running.</p> <p>If you do not want this functionality, you can turn off the interface verification by setting the corresponding flag to "off" in the finder. The sample code is:</p> <pre>ESServiceFinder finder=new ESServiceFinder(connection, interfaceName); finder.setInterfaceVerificationFlag(false); // disable interface check ESService foundService=finder.find(query);</pre>
-	Certain service lookup features provided by e-Speak are not possible when mapping lookups to LDAP. These include service lookup filtering based on repository views, queries using multiple vocabularies, and sorting services found during lookup.	These advanced features only work with the core lookup service, not with the lookups from the Advertising Service.
-	Unable to locate Tomcat 3.1.	Tomcat 3.1 is archived at http://jakarta.apache.org/builds/tomcat/archives/v3.1/bin/

Issues Resolved in this Release

Issue	Symptom	Solution
JAGad77994	Currently e-Speak is capable of using one proxy server, either HTTP or Socks-server. E-speak core should be capable of using multiple proxy-servers at a given time.	E-speak now supports multiple proxy servers. The parameters in the e-speak.cfg file are: <ul style="list-style-type: none"> • net.espeak.infra.cci.messaging.proxy = http,socksv4 • net.espeak.infra.cci.messaging.httpProxy Name = proxy1,prox2,prox3 • net.espeak.infra.cci.messaging.httpProxy Port = port1, port2, port3 • net.espeak.infra.cci.messaging.socksProxy Name= sock1,sock2,sock3 • net.espeak.infra.cci.messaging.socksProxy Port= port1,port2,port3
JAGad60489	<ul style="list-style-type: none"> • Connections per second should be 10/sec. • connections/sec should be improved. • There is a limit on how many client can connect a given core in a second. • This limit should be more, that is more clients should be able to connect to core in a second. 	Connections/sec has been improved by of 50-60% approximately with persistent repository.
JAGad77074	E-speak should be "Highly Available". E-speak should support/use HP's service guard, for e-Speak's high availability.	Investigation report contains information about how to setup service-guard for minimal e-Speak HA , what are the issues in making it "more" Highly Available etc.
	SDK services should be invocable through webaccess.	Now webaccess supports the invocation of SDK services through the User Interface.

Issue	Symptom	Solution
JAGad61067	Core was not able to connect to gateway if gateway is started after the core gets started.	A separate thread is spawned to ping the gateway periodically, if gateway is configured in espeak.cfg.
	Support for Windows 2000	Windows 2000 support is available with this release. To run espeak on windows 2000, use the same instructions as windows NT platform.

