SHA-2 Support

Version 5.2
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Note

Before using this information and the product it supports, read the information in "Notices" on page 3.

This edition applies to Version 5 Release 2 of IBM Sterling Connect:Direct and to all subsequent releases and modifications until otherwise indicated in new editions.

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Contents

SHA-2 support for Sterling Connect:Direct ..... 1

Notices ..... 3
SHA-2 support for Sterling Connect:Direct

If you want to use SHA-2 certificates with IBM® Sterling Connect:Direct® Secure Plus, you must consider which nodes support SHA-2 certificates. If you use IBM Sterling Secure Proxy to secure a session that uses SHA-2 certificates, be sure to use a version of that software that supports SHA-2 certificates.

Sterling Connect:Direct SHA-2 compatibility

If a Sterling Connect:Direct SNODE supports SHA-2 certificates and uses a SHA-2 key certificate and the PNODE does not support SHA-2 certificates, the session fails. If the Sterling Connect:Direct PNODE supports SHA-2 certificates and uses a SHA-2 key certificate and the SNODE does not support SHA-2 certificates, the session fails if client authentication is enabled.

SHA-2 compatibility works the same way with Sterling Secure Proxy as it does with Sterling Connect:Direct. However, Sterling Secure Proxy acts as a client instead of a PNODE and acts as a server instead of an SNODE.

Table 1. SHA-2 certificate configuration scenarios

<table>
<thead>
<tr>
<th>PNODE (Client)</th>
<th>SNODE (Server)</th>
<th>Client authentication enabled?</th>
<th>Session outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supports SHA-2 certificates</td>
<td>Supports SHA-2 certificates</td>
<td>Yes</td>
<td>Succeeds</td>
</tr>
<tr>
<td>Configured to use SHA-2 certificate</td>
<td>Configured to use SHA-2 certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supports SHA-2 certificates</td>
<td>Supports SHA-2 certificates</td>
<td>No</td>
<td>Succeeds</td>
</tr>
<tr>
<td>Configured to use SHA-2 certificate</td>
<td>Configured to use SHA-2 certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supports SHA-2 certificates</td>
<td>Does not support SHA-2 certificates</td>
<td>Yes</td>
<td>Fails</td>
</tr>
<tr>
<td>Configured to use SHA-2 certificates</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supports SHA-2 certificates</td>
<td>Does not support SHA-2 certificates</td>
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<tr>
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<td></td>
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<td>Does not support SHA-2 certificates</td>
<td>Supports SHA-2 certificates</td>
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</tr>
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<td>Configured to use SHA-2 certificate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SHA-2 compatible software

The following versions of Sterling Connect:Direct and Sterling Secure Proxy support SHA-2 certificates:

Table 2. SHA-2 Compatible Software

<table>
<thead>
<tr>
<th>Software</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterling Connect:Direct for z/OS®</td>
<td>All versions</td>
</tr>
<tr>
<td>Sterling Connect:Direct for UNIX</td>
<td>4.1.0 or later, 4.0.00 with 04Mar2011 maintenance or later</td>
</tr>
<tr>
<td>Sterling Connect:Direct for Microsoft Windows</td>
<td>4.6.0 or later, 4.5.01 or later, 4.5.00 Patch 035 or later, 4.4.01 or later, 4.4.00 Patch 068 or later</td>
</tr>
<tr>
<td>Sterling Secure Proxy</td>
<td>3.4.1 or later</td>
</tr>
<tr>
<td>Sterling Connect:Direct for HP NonStop</td>
<td>3.6.0.1 and later</td>
</tr>
<tr>
<td>Sterling Connect:Direct for i5/OS™</td>
<td>3.7.0 and later</td>
</tr>
</tbody>
</table>
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