

# 5 Appendix A

## 5.1 SYSTEM REQUIREMENTS

<b>Server</b>	<b>Minimum specifications:</b> <ul style="list-style-type: none"> <li>• Intel Xeon E3-1230 v5</li> <li>• 8 GB RAM</li> <li>• 100 GB disk (dedicated storage)</li> <li>• 1 Gbit/sec Ethernet controller</li> </ul>	<b>Implemented resources:</b> <b>Processor:</b> _____ <b>RAM:</b> _____ <b>Disk:</b> _____															
<b>Virtual Server</b>	<b>Minimum specifications:</b> <ul style="list-style-type: none"> <li>• 4 vCPU with 14 GHz CPU reservation</li> <li>• 8 GB RAM reservation</li> <li>• 100 GB disk</li> <li>• 1 Gbit/sec Ethernet controller</li> </ul>	<b>Implemented resources:</b> <b>vCPU:</b> _____ <b>RAM:</b> _____ <b>Disk:</b> _____															
NOTE: The system page file should be configured as "System Managed". Otherwise, unintended processing failures could be encountered due to the large memory requirements when processing certain CT series.																	
NOTE: The Intel Xeon E3-1230 v5 has a benchmark of 9700 ( <a href="http://www.cpubenchmark.net">www.cpubenchmark.net</a> ) and the server listed above can achieve a 20 second processing time per image.																	
NOTE: Riverain-provided hardware will require one network and one power supply connection																	
<b>Operating System</b>	Windows 7 Professional/Enterprise/Ultimate 64-bit Windows 8.1 Professional/Enterprise 64-bit Windows 10 Professional/Enterprise 64-bit Windows 2008 R2 Server 64-bit Windows 2012 R2 Server 64-bit Windows 2016 Server 64-bit	<b>Implemented Operating System:</b>															
Windows is a registered trademark of Microsoft Corporation in the United States and other countries.																	
<b>Web Browser</b>	Microsoft Internet Explorer 10 or better, with cookies and Javascript enabled																
<b>Required Ports</b>	<table border="1"> <thead> <tr> <th>Default</th> <th>Configured</th> <th>Purpose</th> </tr> </thead> <tbody> <tr> <td>103</td> <td></td> <td>Required/configurable, DICOM listening port</td> </tr> <tr> <td>7103</td> <td>n/a</td> <td>Required, for distributed processing - not configurable</td> </tr> <tr> <td>8103</td> <td></td> <td>Required internally/configurable, optional for external access to admin console</td> </tr> <tr> <td>9103</td> <td></td> <td>Optional/configurable for viewer</td> </tr> </tbody> </table>		Default	Configured	Purpose	103		Required/configurable, DICOM listening port	7103	n/a	Required, for distributed processing - not configurable	8103		Required internally/configurable, optional for external access to admin console	9103		Optional/configurable for viewer
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<b>Supported Virtualization Environments</b>	VMWare® 5 or later																
<b>Software Protection Key</b>	The HASP-HL key requires: <ul style="list-style-type: none"> <li>• One USB Type A port available</li> <li>• Power consumption 50mA operating / &lt;0.5mA standby</li> </ul>																
<b>AV/Anti-Malware Software</b>	Riverain does not have a preference for AV or Anti-Malware software. The installation directory (typically C:\Program Files\Riverain) and C:\ProgramData\Firebird must be excluded from any AV or Anti-Malware scans																
<b>Third Party Software</b>	Riverain strongly recommends against installing ClearRead CT on a multi-use instance of a VM or having multiple roles for a physical server by adding additional third party software																