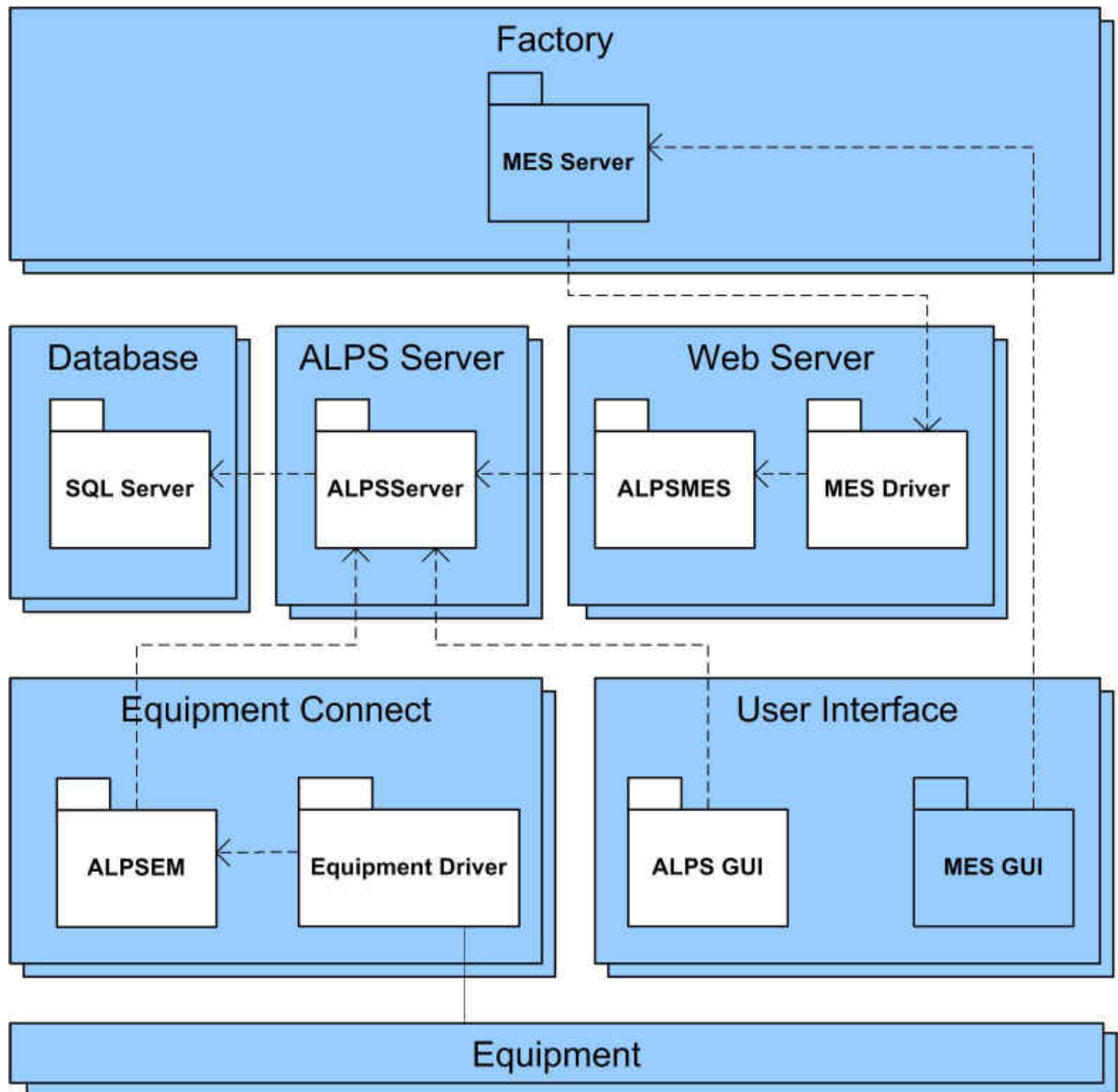


# ALPS 3 COMPUTER REQUIREMENTS

The ALPS 3 components can be distributed among one or more computers according to the installation requirements. The diagram below shows the fully distributed ALPS 3 architecture. The ALPS components are shown in white, 3<sup>rd</sup> Party Software in blue.



## Hardware and Software Requirements

<i>Requirement</i>	<i>Database</i>	<i>ALPS Server</i>	<i>Web Server</i>	<i>Equipment Connect</i>	<i>User Interface</i>
<b>Processor<sup>1</sup></b>	Fast <sup>2</sup>	Fast	Fast	Mainstream <sup>3</sup>	Mainstream
<b>Memory<sup>4</sup></b>	50MB	15MB	10MB	40MB <sup>5</sup>	70MB
<b>Memory per equipment</b>	500K <sup>6</sup>	1MB <sup>7</sup>	-	3MB <sup>8</sup>	-
<b>Disk Space<sup>9</sup></b>	60GB	20MB	20MB	20MB	20MB
<b>Display</b>	Any	Any	Any	None	1024x768, High Color
<b>Network card</b>	√	√	√	√	√
<b>Floppy disc</b>		√			
<b>CD-ROM disc</b>	√	√	√	√	√
<b>SQL Server 2005 Standard Edition<sup>10</sup></b>	√				
<b>Windows Server 2003</b>	√	√	√		
<b>Windows XP Professional<sup>11</sup></b>				√	√

<sup>1</sup> The processor has to support the x86-32 (IA-32) Instruction Set.

<sup>2</sup> For instance: AMD® Opteron™, Intel® Xeon™, etc.

<sup>3</sup> For instance: AMD® Athlon™, Intel® Core™2 Duo, etc.

<sup>4</sup> Memory consumed by ALPS components only.

<sup>5</sup> With 3rd Party SECS/GEM Equipment Driver ALPSEM consumes 12MB per ALPSEM instance. See also note 8.

<sup>6</sup> Additional memory required for each equipment connection.

<sup>7</sup> Additional memory required for each equipment connection.

<sup>8</sup> ALPSEM consumes 350K per connect per ALPSEM Instance. One ALPSEM instance with 16 connects would consume 12MB + 16 \* 350K = 17,600K. 16 ALPSEM instances with 1 connect each would consume (12MB + 16 \* 350K) \* 16 = 281,600K.

<sup>9</sup> Disk usage for all ALPS components is 15 MB for the current ALPS 3 version. The database size was estimated at 55GB for a large installation producing 9,000,000 devices per day with inkless assembly and traceability.

<sup>10</sup> ALPS is delivered with SQL Server Express SP1, suitable only for small (test) installations. SQL Server Express does not support the full functionality included with ALPS 3 such as ALPS Reports.

<sup>11</sup> Alternatively, Windows 2000 SP4 can still be used.