Server Recommendations for a Dedicated Attendance Enterprise 2.0 IIS Server

When determining the correct configuration for the Attendance Enterprise 2.0 IIS Server, it is important to consider 3 factors:

- Total active MSS 2.0 accounts, which is not the estimated concurrent MSS 2.0 accounts. MSS 2.0 user accounts are assumed to manage 10 to 50 employees. The use of MSS 2.0 accounts managing the entire employee base and accounts when accessed can cause performance issues for all other users are not considered in these recommendations.
- Total active ESS 2.0 accounts, which is not the estimated concurrent ESS 2.0 accounts.
- Total employee count. In order to provide better recommendations based on real customer scenarios the following charts have been created.

The following chart takes the total active ESS 2.0 accounts and the total MSS 2.0 accounts and applies a formula to determine the estimated average user accounts. This value may not always match your situation but it is consistent with existing customers and provides a system to handle the majority of customer environments.

Active ESS 2.0 Employees Active MSS 2.0 Users	**1 to 100**	**101 to 250**	**251 to 500**	**501 to 750**	**751 to 1000**	**1001 to 1500**	**1501 to 2000**	**2001 to 3000**	**3001 to 4000**	**4001 to 5000**	**Over 5000**
1 to 5	21	48	88	123	173	258	343	513	683	853	
6 to 10	23	50	90	125	175	260	345	515	685	855	
11 to 15	26	52	92	127	177	262	347	517	687	857	
16 to 20	28	55	95	130	180	265	350	520	690	860	
21 to 25	31	58	98	133	183	268	353	523	693	863	
26 to 50	43	70	110	145	195	280	365	535	705	875	
51 to 75	56	83	123	158	208	293	378	548	718	888	Call C.T.E. SYSTEMS
76 to 100	68	95	135	170	220	305	390	560	730	900	
101 to 150	93	130	170	205	255	340	425	595	765	935	
151 to 200	118	145	185	220	270	355	440	610	780	950	
200 to 250	143	170	210	245	295	380	465	635	805	975	
251 to 500	268	295	335	370	420	505	590	760	930	1100	
Over 500 Users	Call C.T.E. SYSTEMS										

The following server recommendation is based on the estimated average user (determined from the above chart) and the total employees.
Please Note: The server recommendations do not include recommendations for redundancy nor do they specify the only possible server configuration.

Employees Avg. Users	**1 to 100**	**101 to 250**	**251 to 500**	**501 to 750**	**751 to 1000**	**1001 to 1500**	**1501 to 2000**	**2001 to 3000**	**3001 to 4000**	**4001 to 5000**	**Over 5000**
1 to 5	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 2.4Ghz 3G RAM 3G HD	Call C.T.E. Systems <pagefile.sys size
6 to 10	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	Call C.T.E. Systems <pagefile.sys size
11 to 15	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 2.5G RAM 4G HD	Call C.T.E. Systems <pagefile.sys size
16 to 20	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8hz 1G RAM 2G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 3G RAM 4G HD	Call C.T.E. Systems <pagefile.sys size
21 to 25	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 4G RAM 5G HD	Call C.T.E. Systems <pagefile.sys size
26 to 50	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 1.8Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 4G RAM 5G HD	C2D 2.4Ghz 4G RAM 5G HD	Call C.T.E. Systems <pagefile.sys size
51 to 75	C2D 1.8Ghz 1G RAM 2G HD	C2D 1.8Ghz 1.5G RAM 3G HD	C2D 1.8Ghz 1.5G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 3G RAM 5G HD	C2D 2.4Ghz 4G RAM 5G HD	C2D 2.6Ghz 4G RAM 6G HD	Call C.T.E. Systems <pagefile.sys size
76 to 100	C2D 1.8Ghz 1.5G RAM 3G HD	C2D 1.8Ghz 1.5G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 3G RAM 5G HD	C2D 2.4Ghz 3G RAM 5G HD	C2D 2.6Ghz 3.5G RAM 6G HD	C2D 2.6Ghz 3.5G RAM 6G HD	Call C.T.E. Systems <pagefile.sys size

Employees Avg. Users	1 to 100	101 to 250	251 to 500	501 to 750	751 to 1000	1001 to 1500	1501 to 2000	2001 to 3000	3001 to 4000	4001 to 5000	Over 5000
101 to 150	C2D 1.8Ghz 2G RAM 3G HD	C2D 2.4Ghz 2G RAM 3G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 4G RAM 5G HD	C2D 2.4Ghz 4G RAM 5G HD	C2D 2.4Ghz 4G RAM 6G HD	C2D 2.6Ghz 4G RAM 6G HD	C2D 2.6Ghz 4G RAM 6G HD	C2D 2.6Ghz 4G RAM 6G HD	Call C.T.E. Systems <pagefile.sys size
151 to 200	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 4G RAM 6G HD	C2D 2.4Ghz 4G RAM 6G HD	C2D 2.4Ghz 4G RAM 6G HD	C2D 2.6Ghz 5G RAM 8G HD	C2D 2.6Ghz 5G RAM 8G HD	C2D 2.6Ghz 6G RAM 8G HD	C2D 2.6Ghz 6G RAM 8G HD	Call C.T.E. Systems <pagefile.sys size
201 to 500	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 3G RAM 4G HD	C2D 2.4Ghz 4G RAM 4G HD	C2D 2.4Ghz 4G RAM 6G HD	C2D 2.4Ghz 4G RAM 6G HD	C2D 2.4Ghz 4G RAM 6G HD	C2D 2.6Ghz 5G RAM 6G HD	C2D 2.6Ghz 6G RAM 8G HD	C2D 2.6Ghz 6G RAM 8G HD	C2D 2.6Ghz 6G RAM 8G HD	Call C.T.E. Systems <pagefile.sys size
Over 500	Call C.T.E. Systems										

The chart above covers approximately 45% of the total possible combinations (excluding those recommended to Call C.T.E. Systems, Inc.). In circumstances where the average user count exceeds the chart above the recommendation is to provide additional systems equal to the largest system recommended. Shown below are some examples:

Example	Active MSS 2.0 Users	Active ESS 2.0 Users	User Count*	Employees	Server Recommendation*
1	125	1000	255	1500	2 systems: • C2D 2.4Ghz+ with 4 Gig of Ram and a 6 Gig page file • C2D 2.4Ghz+ with 4 Gig of Ram and a 6 Gig page file
2	300	0	268	5000	2 systems: • C2D 2.4Ghz+ with 3 Gig of Ram and a 6 Gig page file • C2D 2.4Ghz+ with 3 Gig of Ram and a 6 Gig page file
3	5	125	48	300	1 system: • C2D 1.8Ghz+ with 1 Gig of Ram and a 2 Gig page file
4	250	3000	805	4000	4 systems: • C2D 2.4Ghz+ with 4 Gig of Ram and a 6 Gig page file • C2D 2.4Ghz+ with 4 Gig of Ram and a 6 Gig page file • C2D 2.4Ghz+ with 4 Gig of Ram and a 6 Gig page file • C2D 2.4Ghz+ with 4 Gig of Ram and a 6 Gig page file

* ***Note:*** *The User Count is determined based on the active MSS 2.0 accounts and active ESS 2.0 accounts in the table on page 1. The Server Recommendation is based on the user count and employees in the table on page 2.*