

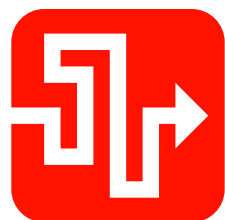
## Efficient and Scalable

K2-KeyServer was originally written for slow networks that predated the internet. Every byte counted, both in memory and on the network. Carrying that philosophy forward has led to a fully integrated solution that is extremely efficient.

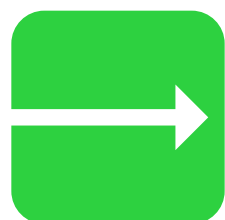
1

Server process  
can support over

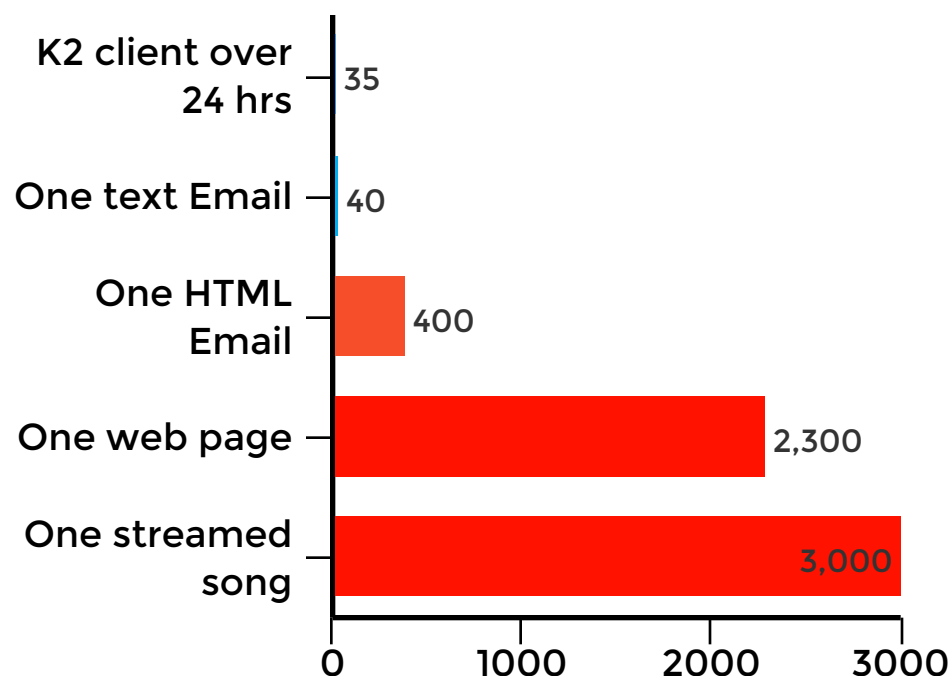
60,000 clients



Other solutions leverage existing technologies. This approach allows rapid development - but inefficiencies add up, lengthening deployment time and increasing management overhead.



With purpose-built, optimized technology, K2 achieves the end goal in as direct and specific a way as possible. Integrated functionality is efficient and avoids extensive configuration.



### Network usage in KB

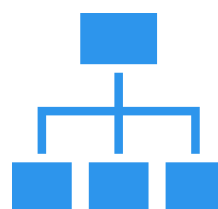
Total Daily network traffic from a K2 client is compared to single transactions for other applications, and is still so low that it's invisible.

## Scalability



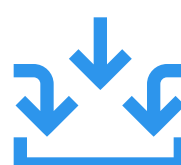
### Integrated Database

*Optimized and indexed for exactly the data it must support, our database also removes any latency from the extra layer of communication required for external databases*



### UDP Networking

*UDP network protocol allows tens of thousands of client sessions with less overhead both on the server and on the network relative to TCP's requirements*



### Threading model

*Lightweight threading model is driven by I/O, not by every individual connection, scaling to support many more clients with only small increases in load*