

# Performance Statistics

## Test System Specification

Processor: Intel(R) Xeon(R) CPU E5-2643 v3 @ 3.6 GHz  
Memory (RAM): 31 GB  
Operating System: Windows Server 2016 Standard Edition

## SigningHub Specification

Version: 7.7.3  
Build: 7730.7730.050419.92708  
DBMS: SQL Server 2016 Express Edition

## ADSS Specification

Version: 5.10.0.4  
Build: 51000.51000.011118.42233  
DBMS: SQL Server 2016 Express Edition

## LoadTest Specification

Tool: LoadUI  
Load Profile Type:  
- Fixed (Having fixed number of 100-200 Concurrent users for fixed amount of time)  
- Burst (Having fixed number of concurrent users initially and after some time burst of concurrent users for prolonged time & vice versa)  
- Ramp Up (Having gradual increase in number of concurrent threads)  
- Single Thread (Having just 1 thread performing all operations until given task is completed)

## No of APIs Executed

- Authenticate
- Create Package
- Upload Document
- Add Users
- Add Digital Signature
- Share Package
- Sign Document
- Finish

## Scenario Execution

1) Executed load test with 100 concurrent users/requests with benchmark of 3787 workflows. SigningHub took 40 mins in processing 3787 workflows

Workflow Completed: 3787  
Duration : 40 Minutes  
No of concurrent Users: 100

Concurrent Request/Thread	Total Number of Workflows	Total Time Taken
100	3787	2400 sec(s)

2) Executed the load test with benchmark to complete 3787 documents in 1 hour. SigningHub system completed this operation in 4.5 hours.

Workflow Completed: 3787  
Duration: 4 hours aprx  
No of concurrent Users: 1

Concurrent Request/Thread	Total Number of Workflows	Average Response Rate
1	1	4.5 sec(s)
100	1	55 sec(s)

3)Further stress added on system and tried to complete 250,000 workflows with 100 concurrent/virtual users. SigningHub took around 16 hours to complete

Workflow Completed: 250,000  
Duration: 16 hours aprx  
No of concurrent Users: 100

Concurrent Request/Thread	Total Number of Workflows	Total Time Taken
100	250,000	57,600 sec(s)

Note: Each thread involves the successful completion of operation starting from Authenticate to Finish.