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# User's Guide

Sizing Calculator

# Sizing Calculator

Before deploying Context Services (CS) for your Conversation Manager solution, you must estimate the size of solution that will be able to handle the expected user load. Genesys recommends that you download the **CS Storage Sizing Calculator**, an Excel spreadsheet that you can use to help calculate the number of Context Services nodes required for your production deployment.

## CS Storage Sizing Calculator

[CS-StorageSizing.xlsx](#)

## Using the Sizing Calculator Spreadsheet

To use the sizing calculator, The following information is required:

- Approximate event size in bytes for event start/end/update of service/state/task (including extension data). You can extract this information from the JSON of the events.
- Number of update events per services/states/tasks
- Number of states/tasks per service
- Number of Cassandra nodes and replication factor
- Retention policy in days and number of conversation per day

The sizing calculator takes into account Cassandra storage specifics such as Replication Factor (storage size is multiplied by 3 as default replication), compression (ratio is estimated to 0.40 by default), and compaction overhead which requires more storage during cycles of data re-organization by Cassandra.

## Input Example

Genesys Context Services - Sizing Input Parameters			
Events Parameter	Event Size (bytes)	Number of Events	Comments
service start event	246	1	
service end event	227		
service update event(s)	291	0	
state start event	210	5	
state end event	225		
state update event(s)	192	0	
task start event	208	10	
task end event	228		
task update event(s)	165	0	
Volume Parameter	Value	Comments	
Number of Conversations per Day	160000		
Conversations life (days)	90		
Number of storage nodes	4		
Replication Factor	3		
Constants	Value	Comments	
Compression ratio	0,50		
CommitLog Size (MB)	8192,00		

## Output Example

Calculations		
Description	Value	Comments
Number of events per conversation	32	
Size of conversation in storage (bytes)	7008	
Number of Activities	2560000	
Description	Total	Comments
Estimated disk size (MB)	80117,80	

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Genesys Context Services - Sizing Output	
Data Size (MB)	80 118
Cluster Data Size (MB)	240 353
Data Size per node MB)	60 088
Disk usage per node (MB)	<b>128 369</b>
Grand Total (MB)	<b>513 475</b>