CONFLUENT

Confluent XStream Oracle CDC Connector status check - questionnaire evaluation					Status:	NO-GO
Questions:						
Please use the questionnaire and enter the answers from customers to this evaluation sheet.						
Based on the answers you are able to decide if the customer requirements can serve with Confluent solution.						
Oracle Related						
Hosted Application	on-prem Apps	Oracle EBS, CRM, ORDER Management				
Full Oracle license	No					
Amount of used CPU core for DB Instance	> 32 cores	In total: 24 CPU cores	= 1 Connector			
Database Version	11g					
Database Edition	Standard Edition					
Database type	Non-CDB					
Feature	RAC	Partitioning	None	None		
Security	OCI default Security	None	None	None		
Hosting Method	self-managed DB					
DDL Model change	Yes	Drop columns, and create new columns				
Authentication Method	DB Authentication					
How many DB Instances	1					
How many DB Tables to be integrated	10		10 Tables + 1 = 11 Tasks			
tables experienced growth	10					
changes frequency in tables	100 changes per table per second					
Record size of largest table	4000 Bytes					
largest table in rows	50000000					
Amount of tables with special formats	2					
special formats	CLOB	BLOB	LONG	> 20MB		
Oracle Redolog Setup						
Redolog Setup	1 Group	3 Members	200 MB			
throughput redo per day	10GB - 160GB	0.1157MB/s - 1.825MB/s				
throughput redo peak per Hours	66 GB	18MB/s				
redolog switches per hour	> 5 Log switches / hour	100 per hour				
Large Transaction records	1 Transaction = 1 record	some transaction=more records		some transaction=million records		
Archive log enabled	Yes					
Do you have long running transactions	Yes	run some minutes				
DBA Support for CDC Project	No					
Confluent related						
Which Confluent deployment	Confluent Cloud					
CP Version	<7.6					
Oracle DB and Connect in same location	No	DB in OCI FRA, Connect AWS FRA				
Do you run Confluent Cloud	Yes					
Confluent Cloud Cluster Type	Standard					
CDC Connector as fully-managed	No					
Run CDC as self-managed to CCloud	Yes	CCloud cluster and self-managed Conector setup requirements				
Requirements for CDC	Confluent CDC Requirements are ok	see limitations				
CDC topic consumer	Kafka Streams	Client App	Flink			
Use case: New modern Data Warehouse	Yes	Databricks in AWS				
General Requirments						
Throughput requirements for CDC	10 MB/s	20000 records / s				
Latency	< 100 s	< 100s				
DB location	Database: DHL CBJ data center (on-prem)					
Confluent Cluster	Confluent Cluster: Confluent Cloud Azure SEA region					
Networking	Networking: SSL over public internet					
Cloud Center Linking	Oracle@AWS					
CDC Connector will add workload on DB	Yes, we expect this					

Confluent XStream Oracle CDC Connector status check - questionnaire evaluation					Status:		NO-GO	
Before and after records	Not needed	need to be flatten with SMT						
DDL Changes	Column renaming							
CDC related								
CDC Solution in place	Yes							
Oracle DB Full use license	Yes							
Goldengate License used	Yes	Want to use GG license	Yes					
Replace existing CDC, which features	Oracle Goldengate	Replicate, Unlock data						
Financial issues with existing solution	No							
Confluent logminer CDC Connector in place	Yes	Should be replaced						
Oracle Related Sizing, Requirements	PLEASE DO NOT CHANGE YELLOW CELLS							
# DB Instances	1	Assumptions DB record size in total	4000 Bytes	Expected Tasks/Threads per connector				
# DB Tables	10			10 Tables = 1 Tasks				
changes frequency in tables	100 changes per table per second	10*100*4000Bytes= 3.8MB/s		10 Tables = 4 Threads would be nice for snapshotting				
Record size of largest table	4000 Bytes							
largest table in rows	50000000	Storage = 186 GB = 50 Mio records * 4000B		Snapshot takes 333 min= 5h + 33min by max 10MB/s				
Deployment Requirement of Connector				Snapshot takes 166 min= 2,755h by max 10MB/s				
Run connector	Self-Managed							
Expected connect worker	standalone Connector							
Deployment location	customer DC							
Deployment type	Openshift							
resize existing self-managed connect cluster	Yes, depends on performance tests							