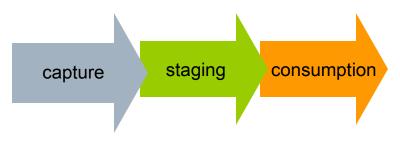
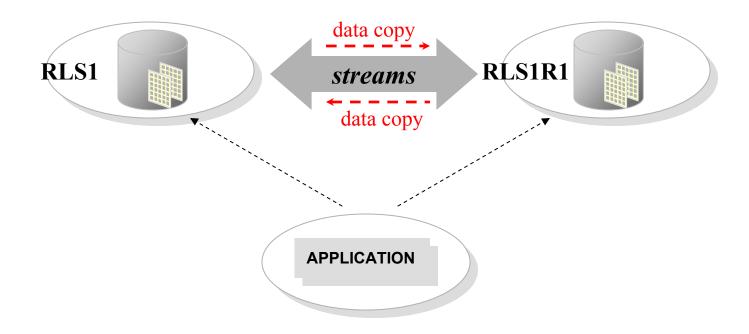
- Oracle Streams
 - new way to share information between databases
 - Data replication:
 - captures DML and DDL changes (events LRC)
 - propagates events
 - applies changes at destination databases
 - requirements:
 - DB version (>=9.2.0.4)
 - DB must run in archive log mode



- RLS database
 - OS: Linux
 - initial DB version: 9.2.0.5
- upgrade to 10g (10.1.0.2.0)

- □ Streams configuration
 - two machines located at CERN
 - streams setup in both directions
 - schema level replication: two schemas



- RLS stress test
 - written in Python; multi-thread application; producer-consumer pattern
 - uses full RLS application stack of POOL FileCatalog

FileCatalog

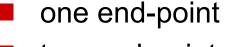
maintains consistent lists of accessible files (physical and logical names) together with their unique identifier (FileID)

resolves a logical file reference (FileID) to a physical file

- allows to setup multiple writers and readers using one or multiple RLS end-points which write and/or read RLS data via RLS end-points
- log file: can be analyzed to produce some statistics
- designed to avoid conflicts not allow conflict resolution studies

RLS1

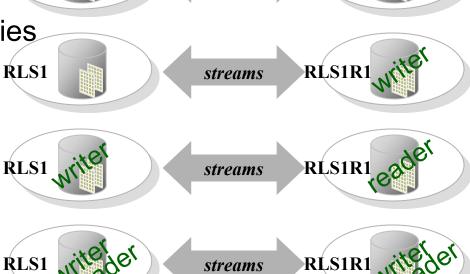
Stress test run configurations







during 3 weeks



streams

streams

RLS1R1

- success results
- conflicts can occur => necessary look at handling conflicts

- □ Next tasks:
 - conflict handling
 - monitoring
 - add external replication sites

