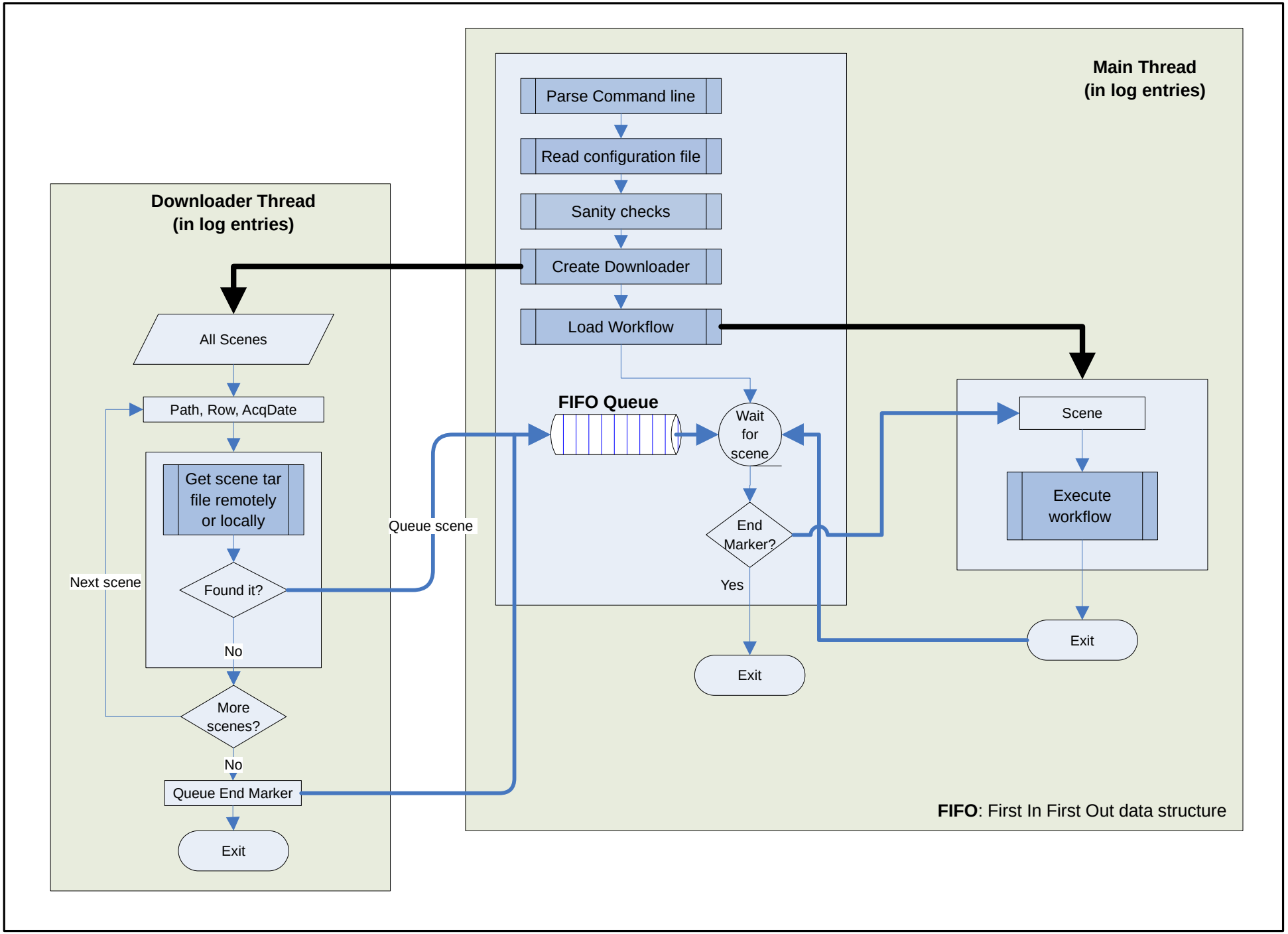
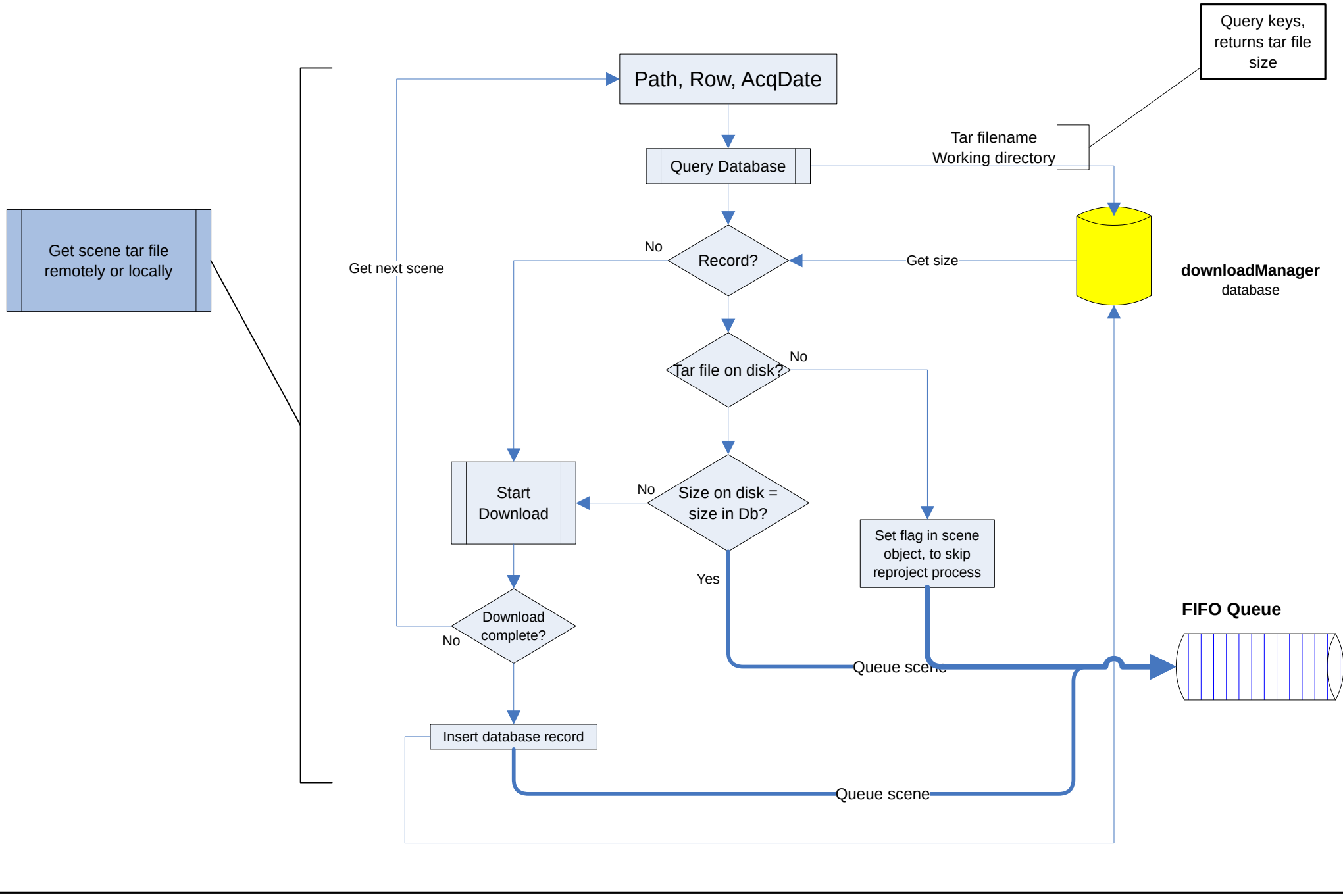
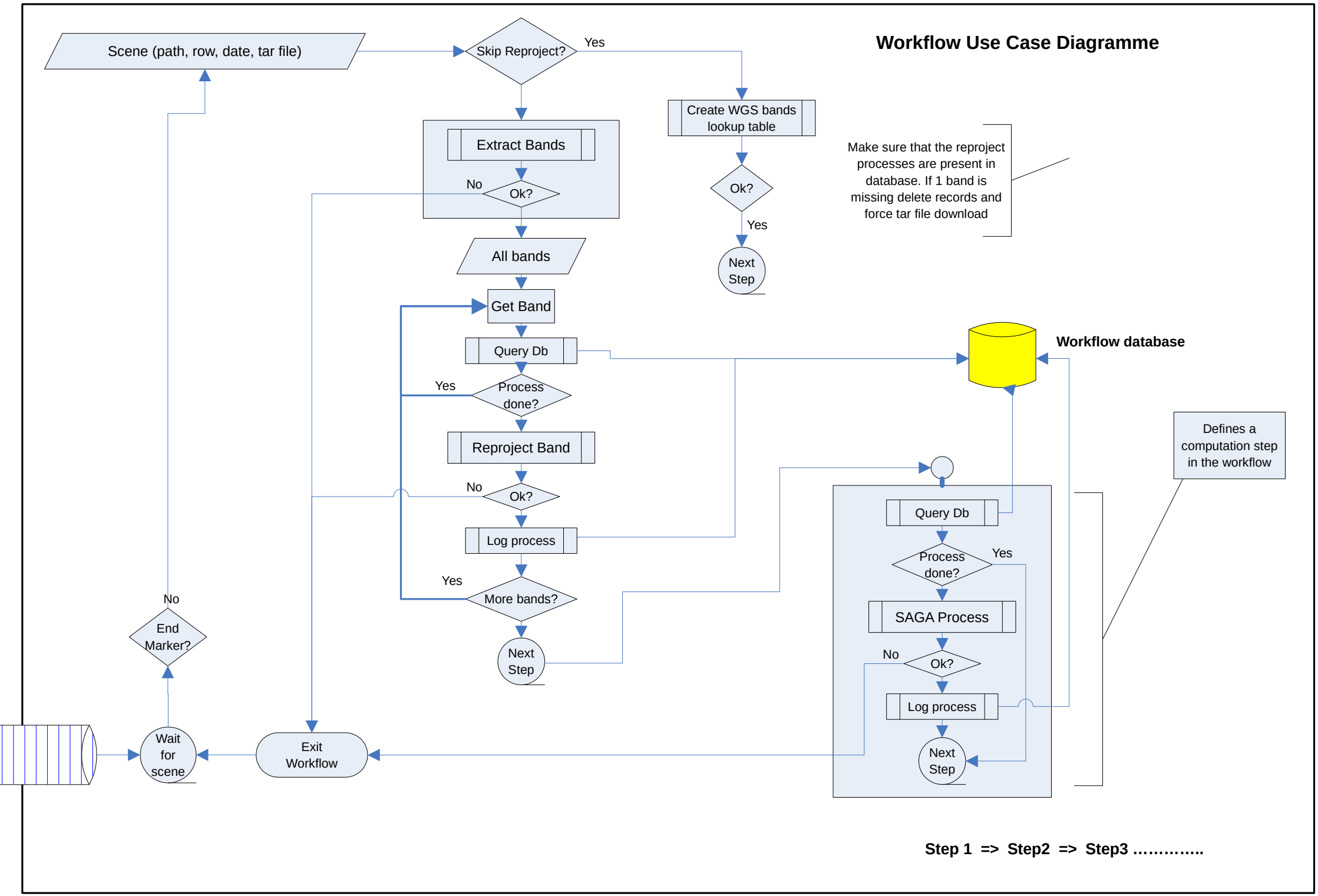

Main Thread
(in log entries)
Parse Command line
Read configuration file
Sanity checks
Create Downloader
Load Workflow
FIFO Queue
Wait for scene
End Marker?
Yes
Exit
Scene
Execute workflow
Exit
Downloader Thread
(in log entries)
All Scenes
Path, Row, AcqDate
Get scene tar file remotely or locally
Found it?
Next scene
No
More scenes?
No
Queue End Marker
Exit
Queue scene
FIFO: First In First Out data structure

Downloader Use Case Diagramme




Workflow Use Case Diagramme
Scene (path, row, date, tar file)
Skip Reproject?
Yes
Create WGS bands lookup table
Ok?
Yes
Next Step
Make sure that the reproject processes are present in database. If 1 band is missing delete records and force tar file download
Extract Bands
No
Ok?
All bands
Get Band
Query Db
Workflow database
Yes
Process done?
Reproject Band
No
Ok?
Log process
Yes
More bands?
Next Step
Defines a computation step in the workflow
Query Db
Process done?
Yes
SAGA Process
No
Ok?
Log process
Next Step
No
End Marker?
Wait for scene
Exit Workflow
Step 1 => Step2 => Step3 ……..