

Stream Engine 1.0

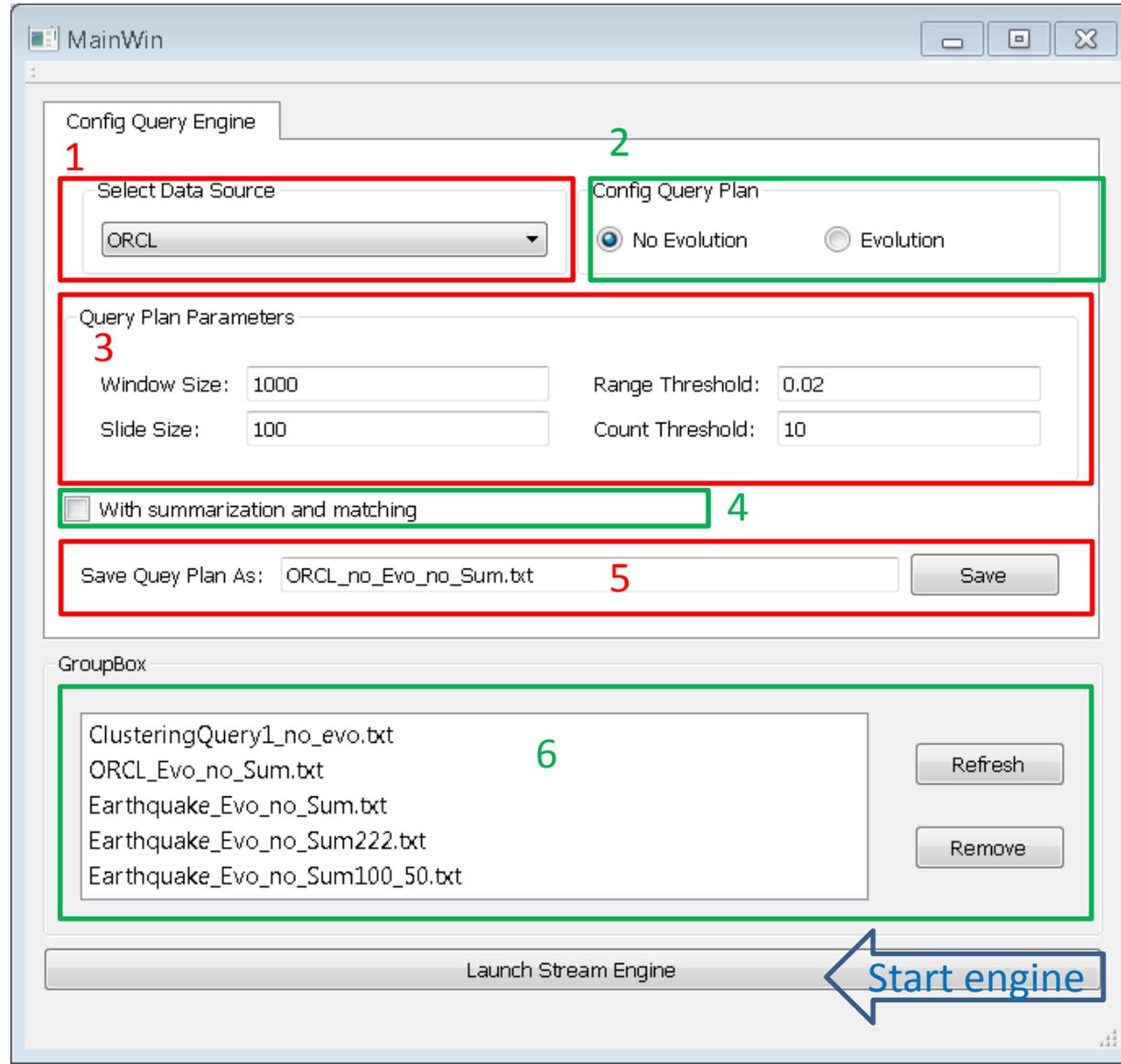
Xmdv Group
Computer Science
WPI

Note

- Please install 7-zip before run stream engine
 - Make sure it is installed under
 - C:\Program Files\7-Zip
 - The traffic data source requires un-zip with 7-zip
- Please run the launcher as administrator all the time
 - The query plans generated are placed in a temporary location by windows if you run as normal user.

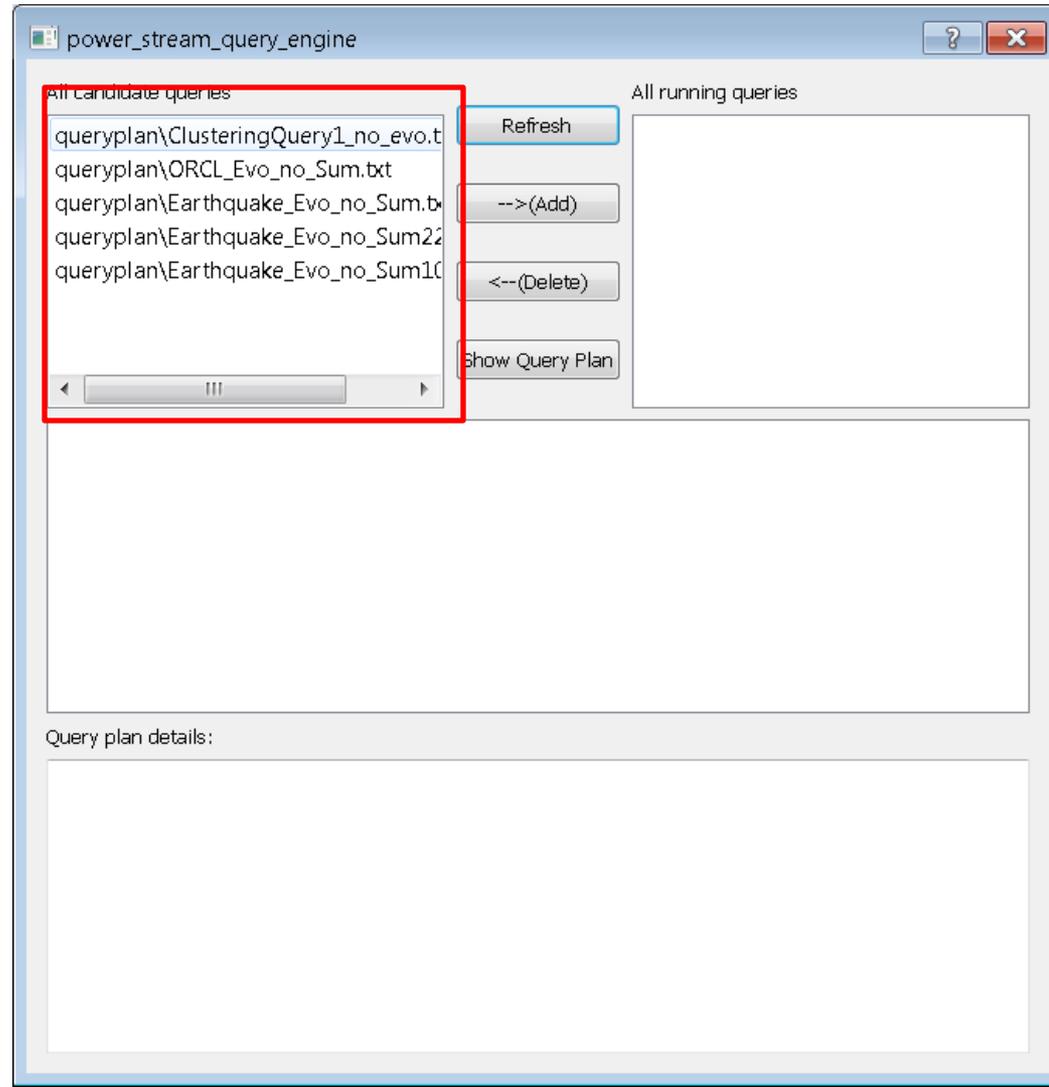
Interface for Query Configuration

1. **Select Data Source**
 - Simulated data (ORCL)
 - Traffic data
 - Earthquake data
2. **Output evolution or not**
3. **Configure the window and clustering parameters**
4. **Enable or disable summarization and matching**
5. **Save query plan**
6. **Manage generated query plan**



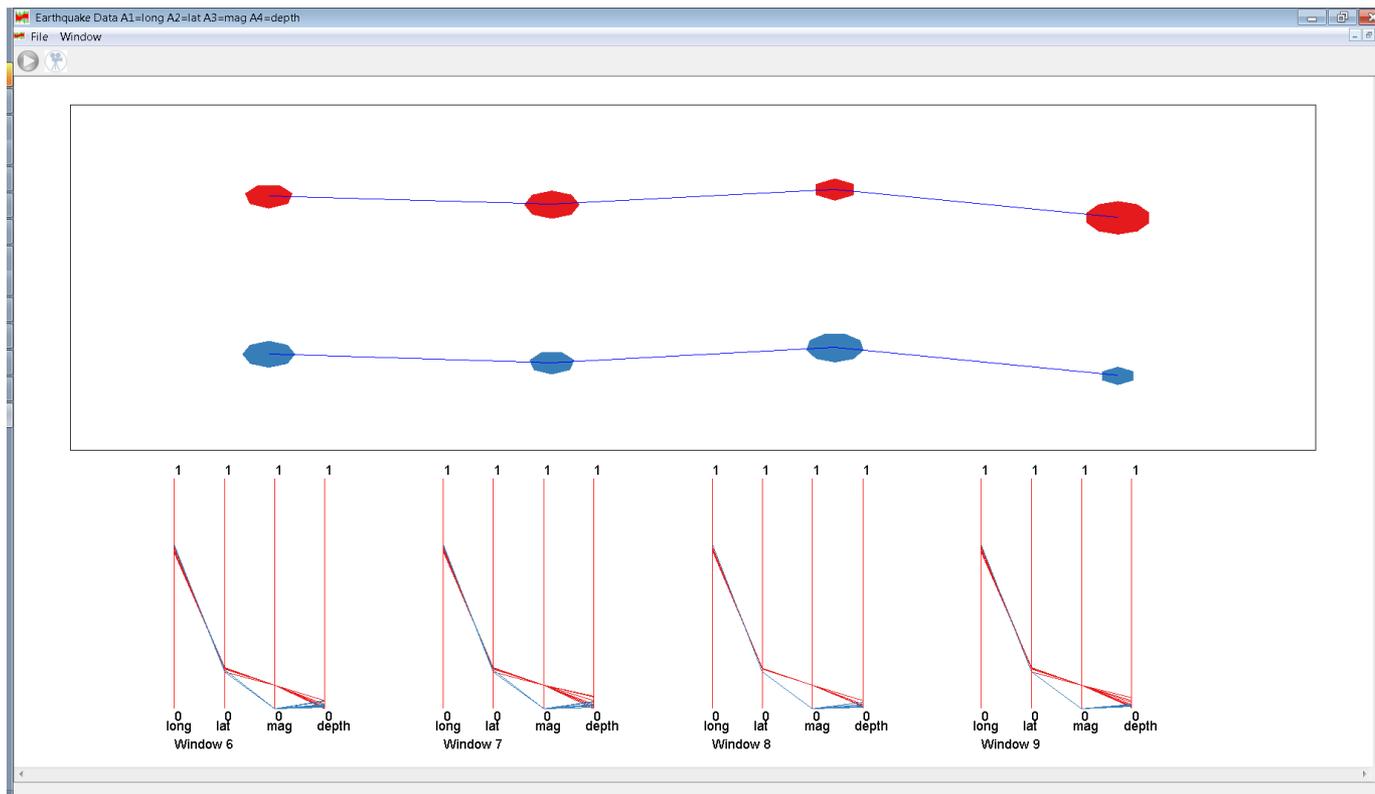
Query Engine Interface

- Select query plan and click “Add”

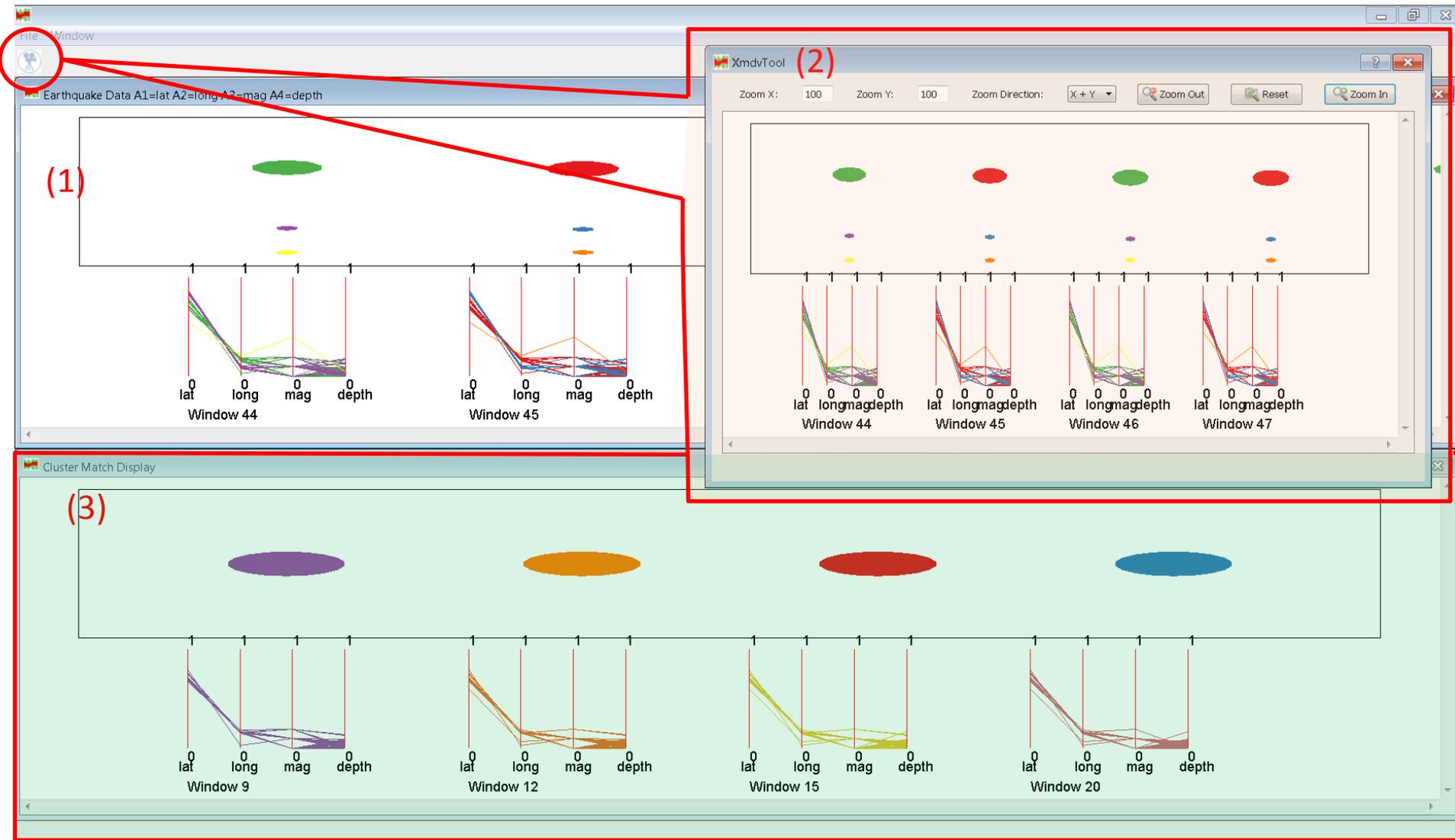


Visual Engine Interface

- And watch the evolving pattern



Matching Request (1)



Matching Request (2)

- 1. Streaming Window:
 - Visualizes the extracted patterns in real time;
- 2. Streaming Capture Window:
 - Allow the user to take a snap shot of the Streaming Window and interact with it;
 - The user submit a matching request to the pattern archive to retrieve the historical matches;
- 3. Cluster Match Display:
 - Visualize the retrieved historical patterns;

Parameter Settings

- Traffic Data
 - Win: 500 Slide: 50 Range: 0.05 Count: 15
 - Source: <http://data.dot.state.mn.us/>
- Earth Quake
 - Win: 100 slide: 10 Range: 0.02 Count: 10
 - Source: <http://earthquake.usgs.gov/>