Build Live Image Services: Workflows, Tips, and Tricks

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Live Image Services

New spatial coverage

Monitoring change over time
New spatial coverage

- Image Service Cache: extent
- Mosaic Dataset: schema

- Alter Mosaic Dataset Schema (expected raster type)
- Add Field (custom fields)
- Import Mosaic Dataset Geometry (expected boundary/extent)
- SDE
New spatial coverage
New dimensional data

- Image Service Cache: extent
- Mosaic Dataset: schema

- Set Mosaic Dataset Properties (Order by time - latest)
New temporal data
Real Time Imagery

- Backend scripts processes raw data and update the mosaic dataset
- Backend scripts notify geoevent processor (tcptext, websocket, poll, etc.)
- Geoevent processor apply filters, push json to websocket
- Client listens to websocket, get real time update
- Client takes actions
Real Time Data
Summary

• Initialization:
  ---- Mosaic Dataset: enterprise, schema, boundary
  ---- Image Service: configure properties, functions, etc.
  ---- cacheControlMaxAge: default 12 hours

• Update:
  ---- Maintain boundary / extent;
  ---- Rebuild indexes;
  ---- Turn off geoprocessing history;
  ---- Calculate Cell Sizes (MinPS is Null or MaxPS is Null)

• Real time imagery:
  ---- Push notification / Geoevent processor (websocket)
  ---- Advanced queries (max, distinct etc.) for time
Thank you…

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