

Electronic Field Edits from Paper for Crisis Situations



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- Print 500,000 individual atlas map pages to GeoPDF
- Have the technicians print and markup in the field
- Incorporate markups in a time efficient manner

Magnitude of the Task

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- 500,000 is not a small number!
- 500,000 seconds is 5.8 days
- Saving every second counts in a crisis

- Need to have all Atlas Maps online all the time
- Can't wait for a disaster to happen to generate
 - response time needs to be immediate
- Reasonable or non-burdensome effort for preparation
 - Can't spend lots of time for events that can't be predicted
 - Earthquakes, tornadoes, wildfires
 - Some events have a few days warning
 - Hurricanes & floods

- Traditional methods of manual printing fell flat
- Automated scripting increased speed, but still 3 minutes per page – not bad
 - Equates to 25,000 hours or 2.85 years!!
- Something else had to be done

			Total Time to Complete Processing			
Application	DA Count	Seconds/DA	Seconds	Hours	Days	Years!
Custom ESRI .dll	500,000	180	90,000,000	25,000	1041.67	2.852

Something else had to be done...

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New approach with GeoPDF

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- FME Server is up to the task
- Creates GeoPDF's from data sources in less than half a second
- Able to complete all 500,000 in 2.4 days!
 - Equates to .41 seconds each

			Total Time to Complete Processing			
Application	DA Count	Seconds/DA	Seconds	Hours	Days	Years
FME	500,000	0.41	204,225	56.73	2.36	0.006

- Data Sources
 - SDE layers
 - AutoCAD title blocks
- Output
 - GeoPDF
 - DWF
 - Can do KML / Google Earth
 - Many standard Safe Software FME supported formats

- Mail / FedEx Atlas Maps back to drafters
- Adobe PDF editors to make electronic markups
 - Requires a laptop or desktop computer
- Digital pen from Adapx
 - Mark with Penx in the field
 - Dock the pen to a host computer
 - Geo-referenced markups automatically loaded into GeoPDF's



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Thank You!

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- Questions?
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