

Integration of RiverWare into CWMS

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Corp Water Management System

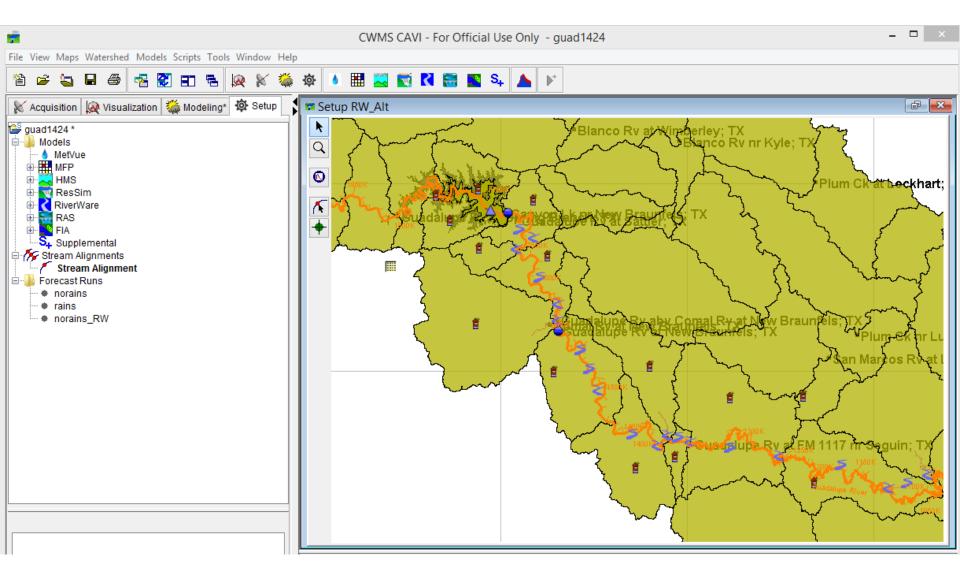
- Modeling Framework that integrates USACE models together
- Operate the system across modeling applications
- Integration uses HEC-DSS to move data

Some Supported Models in CWMS

- HEC MFP Precipitation forecast
- HEC HMS Rainfall Runoff
- HEC Res Sim Reservoir Modeling
- HEC RAS Flood Inundation Analysis
- HEC FIA Flood Impacts Analysis

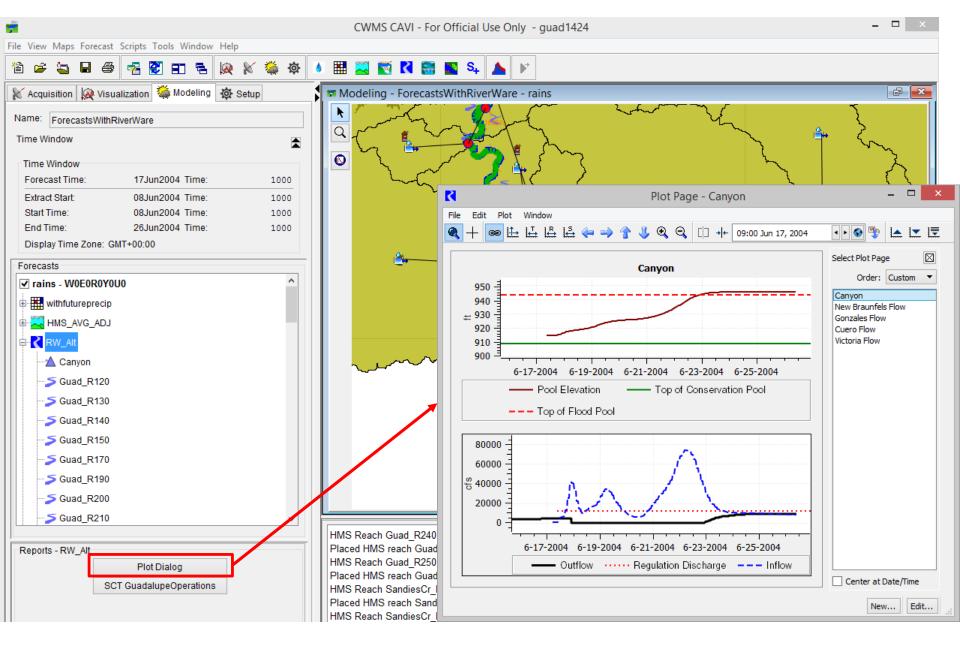
RiverWare Display Functionality

- Show RiverWare models in the CWMS framework
- Display objects in the maps and interface



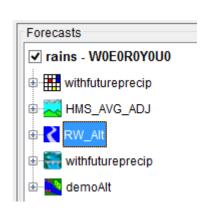
RiverWare Interface Opens

- SCT
- RPL Sets
- Plots
- Objects
- Workspace
- Diagnostics



CWMS "Compute"

- Each model is run in sequential order
- Data is automatically loaded
 - Input data from previous model
 - Output data sent to the next model
- All models use HEC-DSS for data transfer
- RiverWare uses Database DMIs



Upcoming work

- Investigate ways to aggregate / disaggregate data to different time scales
 - HMS models = 1hr
 - RiverWare = 1day
 - \bullet RAS = 1hr or 6hr
- CWMS Version compatibility: CWMS 3.1 will require DSS 7
- Questions?