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| Model Name: Example Listing | | |
| Name and affiliation of author or POC:  Chris Smith, MIT Lincoln Laboratory | Model Symbol: | Accreditation (TRL?):  None |
| Date of Publication:  3/13/17 |
| Version Information:  1.0 |
| Model accessibility (open source, license, …):  Open source |
| Model Description and Theory of Operation:  These set of blocks provide Distribution Management System and Test inputs over modbusTCP. The DMS block is supposed to take requests from a utility entity. These requests will specify how the microgrid controller and the microgrid interact with the upstream utility.  The master sub-folder contains a sample set of ModbusTCP outputs (from 2017 Symposium) that can be sent to this receiving block. The data would normally be only sent to the microgrid controller but is often also sent to the model so that a complete set of “inputs” can be logged.    List of References:  None | | |
| Model Specifications:  Data is passed as INT16.  Assumptions and Limitations  Tested with 1 second input data. | | |
| Interfacing Information (platform, input requirements, possible outputs):  Inputs (INT16 over Modbus):  Timestamp (INT32)  Not used  Not used  Disconnect- Signal to request disconnect from upstream utility  Limit Active- Import or export limit is requested  Limit Value- Import limit (neg) or Export limit (pos) in kW  PF Active- PF regulation is requested  PF Value- Power Factor value desired, + lag and - lead  VAR Active- Reactive power regulation requested  VAR Value- Reactive power regulation setupoint (kVar)  Outputs (bus):  DMS Data  Parameters:  None | | |
| Diagrammatic Representation of Model Internals: | | |
| Model Validation (technique used, evidence):  Used during 2017 Symposium to relay commands to controllers under test. | | |
| Simulation Platform, Solvers:  Matlab 2013a with OpalRT. | | |
| Known Issues:  None | | |
| Models which use this block:  Banshee | | |