

## WG16 Issues - CIM Issues #5827

### Add a new ResourceBid specialized class called DistributedBid

06/23/2022 10:34 AM - Herbert Falk

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Target version:</b>	
<b>Author/Contact Info:</b> Becky	<b>Standard(s):</b>
<b>Base Release:</b> iec61970cim17v34_iec61968cim13v12_iec62325cim04v08	<b>Version:</b>
<b>Solution to be Applied To:</b>	<b>Clause:</b> DistributedBid
<b>Solution Version:</b> iec61970cim17v34_iec61968cim13v12_iec62325cim04v10	<b>Sub-Clause:</b>
<b>Solution Applied By:</b> BLI	<b>Paragraph:</b>
<b>Completion Date:</b> 02/10/2022	<b>Table:</b>
<b>CIM Keywords:</b>	<b>Originally Closed in Version:</b>
<b>Breaking Change:</b>	<b>Origination Date:</b> 01/12/2022
<b>Breaking Change Description:</b>	<b>Origination ID:</b> 16_0111
<b>CIM Impacted Groups:</b> None	<b>Originally Assigned To:</b>
<b>Requestor:</b>	

#### Description

Add a new ResourceBid specialized class called DistributedBid. Inherits from ResourceBid, associated to RegisteredDistributedResource.

#### Proposed Solution

DistributedBid (A distribution connected resource's offer to supply energy or associated energy services or a bid to consume energy or associated energy services)

DistributedBid.scheduleType: datatype enumeration ScheduleKind (scheduleType documents two key features for a specific DER operating mode: (a) the energy flow convention for a positive number as either production or consumption of service and (b) the sense of how the bid/offer amount is used as either a target or setpoint or as a relative change to a defined level. )

ScheduleKind enumeration ((ScheduleKind is an enumeration that documents two key features for a specific DER operating mode: (a) the energy flow convention for a positive number as either production or consumption of service and (b) the sense of how the bid/offer amount is used as either a target or setpoint or as a relative change to a defined level. )

Enum values:

generation

The resource operates as a generation resource, where a positive amount corresponds to an injection of energy and/or grid support services to the grid. The amount of energy is an absolute level understood to be a production setpoint. Negative values are acceptable and represent an energy withdrawal setpoint. For energy storage resources, a positive amount represents a setpoint in the discharging state.

load

The resource operates as a load resource, where a positive amount corresponds to a withdrawal of energy and/or support services from the grid. The amount of energy is an absolute level understood to be a consumption setpoint. Negative values are acceptable and represent an energy injection setpoint. For energy storage resources, a positive amount represents a setpoint in the charging state.

loadReduction

The resource operates as a curtailable load, where a positive amount corresponds to a relative load reduction. The level is relative, generally as an downward offset to a reference level such as the current consumption or a calculated baseline consumption. Negative values are acceptable and represent a load increase offset. For energy storage resources, a positive amount represents a slower rate of charge, a state change from charging (or offline) to discharging, or a faster rate of discharge.

loadIncrease

The resource operates as a variable load, where a positive amount corresponds to a relative load increase. The level is relative, generally as an upward offset to a reference level such as the current consumption or a calculated baseline consumption. Negative values are acceptable and represent a load reduction offset. For energy storage resources, a positive amount represents a faster

rate of charge, a state change from discharging (or offline) to charge, or a slower rate of discharge.

Association DistributedBid 0..n -> 0..1 RegisteredDistributedResource

### Decision

2/3/2022: Team discussed proposal. Team agreed to add the new modeling for DistributedBid.

2/9/2022: Modeled in cim04v10

### History

#1 - 08/08/2022 05:52 PM - Becky Iverson

- Status changed from New to Closed

- Proposed Solution updated

- Decision updated