DER Communication Path Interactions

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| **Interaction** | **Communication Parties** | **Responsibility** | **Control Over** |
| Communication Path A | | | |
| Communication to and from DER Service Provider’s Bulk Grid Operator facing interface | Bulk Grid Operator (e.g. ISO/RTO) | Communications to DER Service Provider | Bulk Electric operational system |
| DER Service Provider (e.g. DER Aggregator) | Communications to Bulk Grid Operator | Bulk Grid Operator facing interface |
| Communication Path B | | | |
| Communication to and from the DER Service Provider’s Utility facing interface | Utility | Communications to DER Service Provider | Utility operational system |
| DER Service Provider (e.g. DER Aggregator) | Communications to Utility | Utility facing interface |
| Communication Path C | | | |
| Communication to and from Bulk Grid Operator to DER | Bulk Grid Operator (e.g. ISO/RTO) | Communication directly to DER owner | Bulk Electric operational system |
| Individual DER Owner (e.g. homeowners or corporations) | Communications to Bulk Grid Operator | Individual DER., possibly through vendor portal or local interface (e.g. WiFi) |
| Communication Path D | | | |
| Communications to and from Utility to DER | Utility | Communication directly to DER owner | Utility operational system |
| Individual DER Owner (e.g. homeowners or corporations) | Communications to Utility | Individual DER, possibly through vendor portal or local interface (e.g. WiFi) |
| Communication Path E | | | |
| Communication to and from the DER Service Provider’s resource facing interface | DER Service Provider (e.g. DER Aggregator) | Communication directly to DER owner | Resource facing interface |
| Individual DER Owner (e.g. homeowners or corporations) | Communications to DER Service Provider | Individual DER, possibly through vendor portal or local interface (e.g. WiFi) |