

# Direct Outage Data Integration

ORNL is managed by UT-Battelle LLC for the US Department of Energy

# How To Share Data

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Review the [ODIN Developer Guide](#)

2

Create an account on the [Test Environment](#)

3

Test data integration via ODIN's API

4

Deploy and integrate with [ODIN's Production Environment](#)

# When Sharing Outage Data...

- We do not want any customer information or PII
  - No information that identifies a specific customer that is impacted such as street addresses, company / organization names, or names of individuals impacted by an outage
- You can share outage information with us either as FIPS county code, zip code, U.S. census tract, or as a point / polygon feature ( lat / lon WGS 84)
  - Our preference being a higher resolution than county level (if possible)
- We prefer to receive information at an interval of every 5 – 15 minutes
  - Our preference is every 10 minutes if possible
- Each outage feed replaces the current state / status of what was sent to us previously and becomes the active or current power outage state
- Even If there are no active outages, we still would like to receive an outage event that describes that just to ensure connectivity is there from both endpoints

# Data Sharing Technical Considerations...

- We cannot receive an HTTP payload >10 Mb for any request (if this is a problem, please let us know)
- HTTPS / SSL encryption and protocols such as TLS 1.2+ and only certain [ciphers are allowed](#)
- Once testing is completed and finalized with ODIN:
  - You will need to request an account on ODIN's production website
  - Point all service connections to the correct URLs for ODIN's production API
  - We ask that you turn off any test outage feed to ODIN once production integration is finalized

# For OMS / Outage Software Vendors...

- The utility will need a way to store their user credentials and update them in the outage management software
  - Every utility that shares outage information with ODIN must authenticate with the security API to share outage data
- Our preference is that each utility has its own account instead of a global / centralized vendor account
  - Account registration allows ODIN to gather valuable point of contact information in the event we need to contact the utility

# ODIN Technical Team

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