



# NAESB Gas-Electric Harmonization Forum Addendum

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Houston, TX  
February 18 and 19, 2016



# Electronic Scheduling for Gas-Service

- Agent Service
  - *Create and submit nominations*
- Authority Service
  - *Nomination request communication and status management*
  - *Provides a single “master” record*
- Approval Service
  - *Evaluate and approve/deny nomination requests*
  - *Adjustments*
- Projected Benefits of separated services
  - *Can leverage, as starting point, existing NAESB e-Tag specifications*
  - *Simple to implement*
  - *Easier to develop and maintain standards*
  - *Aligned with industry business practices*



## Agent Service

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- All nominations created by shippers are submitted from Agent service directly to Authority service
- Agent may submit corrections or updates to nominations
- Agent will receive all status updates
- Agent does not perform approval functions



# Authority Service

- Receives all nominations created by Agent services
- Receives all updates submitted by Agent or Approval services
- Validates for compliance with Gas Industry Registry (GIR) and defined business rules
- GIR contains record of all parties that participate in the gas scheduling process and lists of physical elements that can be included on the nomination
- If a nomination passes validation, Authority will distribute nomination information to each party to the nomination for viewing, approval, and volume adjustment actions
  - *Shippers receive information via their Agent service*
  - *TSPs (Transportation Providers, i.e., pipelines) and Meter Operators receive information from Authority via their Approval service*



# Approval Service

- TSPs and Meter Operators perform approval and volume adjustment actions on submitted nominations
- TSP can reject nominations in accordance with their business rules
  - *Example: invalid or insufficient transportation capacity, or invalid storage contract*
- Meter Operators can reject nominations in accordance with their business rules
  - *Example: incorrect metering point was specified, or volumetric information was incorrect*
- All approval or rejection actions are communicated to Authority in real time. Authority automatically updates nomination status and distributes updates to all parties



# Confirmation and Scheduling

- Meter Operators perform confirmation process, which may or may not result in adjustment of initially nominated volumes. Confirmation action is communicated by Approval to Authority, which instantly updates status and distributes this event to all participants to the nomination
- TSPs perform scheduling and derive final scheduled volumes. Scheduling action is communicated by Approval service to Authority, which updates nomination status and distributes updated nomination to all participants to the nomination
- Authority monitors status of each flow segment of the nomination, derives the final status and distributes it to all parties



# Thank You

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