

OASIS II Scope Document

In order to properly understand the breadth of OASIS II and how it may be approached, it is necessary to define the scope of OASIS II. The NAESB OASIS II Scoping Task Force has prepared the following document in order to facilitate this definition.

Relation to Overall OASIS II Project

This document, the OASIS II Scope document, is intended to be one of two initial documents that are to be created by NAESB as development of OASIS II begins. Its companion, the OASIS II Vision document, will describe the general end state and various stages of this project that are expected to be achieved.

Upon completion, these two documents will serve as the starting point and guideline for developing several other documents in the OASIS II Project:

- The OASIS II Use Cases, which will describe all in-scope business processes, business objects, and their associated logic. A significant amount of work on the Use Cases has already been done by ESC. This effort is to ensure that the use cases cover the vision and scope as the task Force proceeds
- The OASIS II Requirements Document, which will support the Use Cases by detailing specific requirements and metrics
- The OASIS II Structural Design Document, which will describe the technical architecture and how functionality will be staged for deployment
- The OASIS II Implementation Plan, which will indicate the order and timeline of how the stages will be specified, developed, and deployed
- The OASIS II Standards and Communications Protocols, which will describe the data exchanges between the various OASIS systems and their associated business logic, and
- The OASIS II Business Practices, which will indicate North-American standards to be considered when utilizing the OASIS Phase II system.

The above documents represent the deliverables expected of the OASIS II design effort. Upon completion of this work, the Standards and Communications Protocols and Business Practices will be recommended for adoption as NAESB standards.

Overall Technical Approach

In general, there will be a fundamental shift in paradigm between the OASIS systems in use today and the OASIS II systems of the future. While today's OASIS nodes are web servers operated by one or more tariff administrators, the Task Force envisions OASIS II to be a much more expansive network, comprised of many systems each performing specific tasks in the wholesale power industry. Similar to the NERC E-Tag system, which is made up of four different types of systems (services) that all work together, the Task Force expects OASIS II will similarly be a large collection of systems exchanging

information to facilitate commerce and trade, as well as support the physical operation of the bulk power system. As such, the term OASIS II is specifically meant to refer to a set of common, standardized business functionality and associated supporting electronic communication interfaces implemented between cooperating entities (e.g., market participants, market operators, etc.), and is not meant to correspond to any one or group of specific systems that implement that interface. The primary scope of OASIS II is to define the functionality of these systems and the communications standards to exchange data among these systems and the users of these systems.

In order to ensure that all stakeholders that may be impacted by OASIS II are properly considered, the OASIS II design process will incorporate formal communications plans and relationships as necessary with other industry groups representing their stakeholder interests. This includes, but is not necessarily limited to, the ISO/RTO Council and various impacted committees and subcommittees within NERC.

The focus of OASIS II will actually be on the exchange of data, rather than the usage of data. This will ensure that the solutions the Task Force proposes are applicable to various forms of market design. While there will undoubtedly be some business logic associated with the OASIS II Processes themselves, the intent is to avoid mandating specific processes whenever possible.

Scope of OASIS II Project

The scope of OASIS II can be considered to be any function where business entities exchange data related to the commerce surrounding the use of the bulk power system. This includes:

1. The interaction between market participants and various power markets, including both existing 888-style Transmission and Ancillary Service markets as well as more centralized transmission and energy markets.
2. The submission of Market data to the Interchange Authority (IA) as described within the NERC functional model; in other words, the manner in which the IA receives “transactions.”
3. The exchange of Operational data as described within the NERC functional model; in other words, communications involving the Balancing Authority (BA), Reliability Authority (RA), Transmission Service Providers (TSP), and IA. The scope of OASIS II would not include the development of any reliability policies or standards directly, but would include supporting the reliability goals established by NERC (or other reliability organizations) to the extent possible.
4. The data exchanged between marketers when writing a transaction; in other words, the process through which marketers build “source to sink” transactions and request their implementation (i.e. “scheduling”). This means defining standards that could be used to exchange information between the parties involved in the transaction.
5. The process through which both market and operation entities exchange reliability information, such as outages, system topology, and other significant data.

6. The coordination of the implementation of Industry cyber-security standards with regard to securing these systems.
7. The provision of a mechanism through which the confidentiality of any data is preserved.
8. The exchange of settlements and billing data. This is not considered a high priority, but rather a strategic direction and goal for later development.

The standards should be flexible or comprehensive enough to accommodate regional diversity to the extent possible. OASIS II must be market-design neutral. Unless certain discrepancies between market designs are purely unworkable, no specific guidance should be offered. Instead, the systems should be designed to support as many options as possible, and leave standardization to either voluntary actions or regulatory directive.

OASIS II will provide a single standardized communication process satisfying the market interface needs of the bulk power industry.