



**Summary of Requirements for
NAESB WEQ OASIS S&CP Certification
(WEQ-002)**

Anyone seeking to be certified on NAESB's Wholesale Electric Quadrant (WEQ), Version 003.1 Open Access Same-Time Information Systems (OASIS) Standards & Communications Protocols (SC&P), Version 2.1 must comply with the below standards. The purpose of this summary is to aid in the determination of whether or not to seek certification. The full check list will be made available to upon receipt of a Certification Program Application and payment.

Network Architecture Requirements:

- 2.1a Permit Use of Any OASIS Node Computers
- 2.1b Permit Use of Any Transmission Customer Computers
- 2.1c Permit the Offering of Value-Added Services
- 2.1d Permit Use of Existing Communications Facilities
- 2.1e Single or Multiple Transmission Providers per OASIS Node
- 2.2a Internet Compatibility
- 2.2b Connection through the Public Internet
- 2.2c Connection to a Private Internet Network
- 2.2d Internet Communications Channel
- 2.3a/b Point-to-Point Protocol (PPP) and Internet Protocol Control Protocol (IPCP) and Serial Line Internet Protocol (SLIP)
- 2.3c Transport Control Protocol and Internet Protocol (TCP/IP)
- 2.3d Hypertext Transport Protocol (HTTP) and Hypertext Transfer Protocol Secure (HTTPS)
- 2.3e Internet Protocol Address
- 2.4a Browser Support
- 2.4b Browser-based Forms and Plug-ins
- 2.4c Domain Name Service (DNS)
- 2.4d Simple Network Management Protocol (SNMP)
- 2.4e E-Mail
- 2.5a World Wide Web (WWW) Browsers
- 2.5b Internet Interconnection across OASIS Nodes

Information Access Requirements:

- 3.1a Location of Transmission Providers
- 3.1b Initial User Registration
- 3.1c Initial Access Privileges
- 3.2 Service Level Agreements



- 3.3a Display
- 3.3b Read-Only Access to Transmission Service Information
- 3.3c Downloading Capability
- 3.3d On-Line Data Entry on Forms
- 3.3e Uploading Capability
- 3.3f Selection of Transmission Service Information
- 3.4a Transmission Provider Posting of Transmission Service Information
- 3.4b General Postings - INFO.HTM
- 3.4c OASIS Node Space for Reseller
- 3.4d Reseller Posting to Transmission Provider OASIS Node
- 3.4e Reseller Posting Capabilities
- 3.4f Free-Form Posting of non-Transmission Service Information
- 3.4g Time Stamps
- 3.4h Transaction Tracking by an Assignment Reference Number
- 3.4i Time-Stamped OASIS Audit Log
- 3.4j Studies
- 3.5a General Message & Log
- 3.5b Transmission Services Information Provider (TSIP) Notification Design Responsibilities
- 3.6a Query/Response
- 3.6b Purchase Request
- 3.6c Upload and Modify Postings

General OASIS and Point-to-Point Transmission Service (PTP) Interface Requirements:

- 4.1a American Standard Code for Information Interchange (ASCII)-Based OASIS Templates
- 4.1b ASCII-Based OASIS File Structures
 - 4.2.1.1 OASIS Node Names
 - 4.2.1.2 OASIS Node and Primary Provider Home Directory
 - 4.2.1.3 Script Names
 - 4.2.2 OASIS Data Dictionary
 - 4.2.3.1 OASIS Template Construction
 - 4.2.3.2 OASIS Template Categories
 - 4.2.3.3 OASIS Template Browser-based Screens
 - 4.2.4 Query/Response OASIS Template Requirements
 - 4.2.5 Input/Response OASIS Template Requirements
 - 4.2.6.2 Standard Header Query Variables
 - 4.2.6.3 Responses to Queries
 - 4.2.6.4 Multiple Instances of Query Variables



- 4.2.6.5 Logical Operations on Query Variables
- 4.2.6.6 Handling of Time Data Elements
- 4.2.6.7 Default Values of Query Variables
- 4.2.6.8 Limitations on Query Variables
- 4.2.7.2 CSV Input Header Records
- 4.2.7.3 CSV Response Header Records
- 4.2.7.4 CSV Data Records
- 4.2.7.5 CSV Continuation Records
- 4.2.7.6 CSV Error Handling
- 4.2.8.1 General Registration Information
- 4.2.8.2 Transmission Customer Company Registration
- 4.2.8.3 User Registration Information
- 4.2.9.1 General Representation of Time
- 4.2.9.2 Input Time Representation
- 4.2.9.3 Output (Response) Time Representation
- 4.2.10.1 Request Types
- 4.2.10.2 Status Values
- 4.2.10.3 Dynamic Notification
- 4.2.10.4 Use of Comments
- 4.2.11 Reference Identifiers
- 4.2.12 Linking of Ancillary Services to PTP

General OASIS and PTP Template Descriptions:

- 4.3.2.1 **transoffering** (Query/Response)
- 4.3.2.2 **ancoffering** (Query/Response)
- 4.3.3.1 **transserv** (Query/Response)
- 4.3.3.2 **ancserv** (Query/Response)
- 4.3.4.1 **scheduledetail** (Query/Response)
- 4.3.4.2 **security** (Query/Response)
- 4.3.4.3 **reduction** (Query/Response)
- 4.3.4.4 **systemdata** (Query/Response)
- 4.3.5.1 **list** (Query/Response)
- 4.3.6.1 **transrequest** (Input/Response)
- 4.3.6.2 **transstatus** (Query/Response)
- 4.3.6.2.1 **rollover** (Query/Response)
- 4.3.6.2.2 **cco** (Query/Response)
- 4.3.6.2.3 **cgstatus** (Query/Response)
- 4.3.6.3 **transsell** (Input/Response)



- 4.3.6.4 **transcust** (Input/Response)
- 4.3.6.4.1 **cgupdate** (Input/Response)
- 4.3.6.5 **transassign** (Input/Response)
- 4.3.7.1 **transpost** (Input/Response)
- 4.3.7.2 **transupdate** (Input/Response)
- 4.3.8.1 **ancrequest** (Input/Response)
- 4.3.8.2 **ancstatus** (Query/Response)
- 4.3.8.3 **ancsell** (Input/Response)
- 4.3.8.4 **anccust** (Input/Response)
- 4.3.8.5 **ancassign** (Input/Response)
- 4.3.9.1 **ancpost** (Input/Response)
- 4.3.9.2 **ancupdate** (Input/Response)
- 4.3.10.1 **messagepost** (Input/Response)
- 4.3.10.2 **message** (Query/Response)
- 4.3.10.3 **messagedelete** (Input/Response)
- 4.3.10.4 **personnel** (Query/Response)
- 4.3.10.5 **discretion** (Query/Response)
- 4.3.10.6 **stdconduct** (Query/Response)
- 4.3.11 Audit Log
- 4.4 File Request and File Download Examples (See the Business Practice Standard WEQ-013-C)
- 4.5 General Postings

Performance Requirements:

- 5.1 Security
- 5.2 Access Privileges
- 5.3 OASIS Response Time Requirements
- 5.4 OASIS Transmission Provider Account Availability
- 5.5 Backup and Recovery
- 5.6 Time Synchronization
- 5.7 Transmission Service Information Timing Requirements
- 5.9 Performance Auditing
- 5.10 Implementation Plan



Network Integration Transmission Service (NITS) Interface Requirements:

- 101.1a ASCII-Based NITS OASIS Templates
- 101.1b ASCII-Based OASIS File Structure
- 101.2.1.1 OASIS Node Names
- 101.2.1.2 OASIS Node Transmission Provider Home Directory
- 101.2.1.3 CGI Script Names
- 101.2.2 Data Element Dictionary
- 101.2.3.1 NITS OASIS Template Construction
- 101.2.3.2 NITS OASIS Template Categories
- 101.2.3.3 NITS OASIS Template User Interface Screens
- 101.2.4 Query/Response NITS OASIS Template Requirements
- 101.2.5 Input/Response NITS OASIS Template Requirements
- 101.2.6.2 Standard Header Query Variables
- 101.2.6.3 Responses to Queries
- 101.2.6.4 Multiple Instances of Query Variables
- 101.2.6.5 Logical Operations on Query Variables
- 101.2.6.6 Query Time Data Elements
- 101.2.6.7 Default Values
- 101.2.6.8 Limitations on Queries
- 101.2.7.2 NITS CSV Input/Response Header Records
- 101.2.7.3 NITS CSV Query/Response Header Records
- 101.2.7.4 NITS CSV Data Records
- 101.2.7.5 NITS CSV Continuation Records
- 101.2.7.6 Error Handling in NITS CSV Formatted Responses
- 101.2.8 Registration Information
- 101.2.9 Representation of Time
- 101.2.10.1 Request Types
- 101.2.10.2 STATUS Values
- 101.2.10.3 Dynamic Notification
- 101.2.10.4 Use of Comments
- 101.2.11 Reference Identifiers
- 101.2.12 Linking of Ancillary Services to NITS



NITS OASIS Input/Response Template Descriptions:

- 101.3.1.1 ***NewNITS Request*** (Input)
- 101.3.1.2 ***UpdateNITSRequest*** (Input)
- 101.3.1.3 ***NewConcomitantRequest*** (Input)
- 101.3.1.4 ***UpdateConcomitantRequest*** (Input)
- 101.3.2.1 ***CopyNITSApplication*** (Request)
- 101.3.2.2 ***CopyNITSRequest*** (Request)
- 101.3.2.3 ***NewNITSApplication*** (Request)
- 101.3.2.4 ***ModifyNITSService*** (Request)
- 101.3.2.5 ***ModifyNITSCustomer*** (Request)
- 101.3.2.6 ***AddNITSAgent*** (Request)
- 101.3.2.7 ***ModifyNITSAgent*** (Request)
- 101.3.2.8 ***AddNITSLoad*** (Request)
- 101.3.2.9 ***ModifyNITSLoad*** (Request)
- 101.3.2.10 ***AddNITSGeneration*** (Request)
- 101.3.2.11 ***ModifyNITSGeneration*** (Request)
- 101.3.2.12 ***AddNITSResource*** (Request)
- 101.3.2.13 ***ModifyNITSResource*** (Request)
- 101.3.2.14 ***AddNITSDNR*** (Request)
- 101.3.2.15 ***TerminateNITSDNR*** (Request)
- 101.3.2.16 ***AddNITSSecondary*** (Request)
- 101.3.2.17 ***TerminateNITSSecondary*** (Request)
- 101.3.2.18 ***AddNITSAncillary*** (Request)
- 101.3.2.19 ***AddPTPService*** (Request)
- 101.3.3.1 ***NITSService*** (Data)
- 101.3.3.2 ***NITSCustomer*** (Data)
- 101.3.3.3 ***NITSAgent*** (Data)
- 101.3.3.4 ***NITSLoadDescription*** (Data)
- 101.3.3.5 ***NISTLoadForecast*** (Data)
- 101.3.3.6 ***NITSGenerationDescription*** (Data)
- 101.3.3.7 ***NITSGenerationDispatch*** (Data)
- 101.3.3.8 ***NITSResourceDescription*** (Data)
- 101.3.3.9 ***NITSResourceForecast*** (Data)



- 101.3.3.10 **NITSResourceDesignation** (Data)
- 101.3.3.11 **NITSResourceCapacity** (Data)
- 101.3.3.12 **NITSSchedulingRights** (Data)
- 101.3.3.13 **AuxiliaryTransmission** (Data)
- 101.3.3.14 **NITSSecondaryService** (Data)
- 101.3.3.15 **NITSSecondaryCapacity** (Data)
- 101.3.3.16 **NITSAncillaryService** (Data)
- 101.3.3.17 **NITSAncillaryCapacity** (Data)
- 101.3.3.18 **PTPService** (Data)
- 101.3.3.19 **PTPCapacity** (Data)

NITS OASIS Query/Response Template Descriptions:

- 101.4.1.1 **QueryNITSRequest** (Query)
- 101.4.1.2 **QueryNITSRequestDetails** (Query)
- 101.4.1.3 **QueryNITSApplication** (Query)
- 101.4.1.4 **QueryNITSDNR** (Query)
- 101.4.1.5 **QueryNITSSchedulingRights** (Query)
- 101.4.2.1 NITS Request Object
- 101.4.2.2 NITS Application Object
- 101.4.2.3 **NITSDNRList** (Object)
- 101.4.2.4 **NITSSchedulingRightsList** (Object)
- 101.4.3.1 **NITSService** (Data)
- 101.4.3.2 **NITSCustomer** (Data)
- 101.4.3.3 **NITSAgent** (Data)
- 101.4.3.4 **NITSLoadDescription** (Data)
- 101.4.3.5 **NITSLoadForecast** (Data)
- 101.4.3.6 **NITSGenerationDescription** (Data)
- 101.4.3.7 **NITSGenerationDispatch** (Data)
- 101.4.3.8 **NITSResourceDescription** (Data)
- 101.4.3.9 **NITSResourceForecast** (Data)
- 101.4.3.10 **NITSResourceDesignation** (Data)
- 101.4.3.11 **NITSResourceCapacity** (Data)
- 101.4.3.12 **NITSSchedulingRights** (Data)
- 101.4.3.13 **AuxiliaryTransmission** (Data)



- 101.4.3.14 ***NITSSecondaryService*** (Data)
- 101.4.3.15 ***NITSSecondaryCapacity*** (Data)
- 101.4.3.16 ***NITSAncillaryService*** (Data)
- 101.4.3.17 ***NITSAncillaryCapacity*** (Data)
- 101.4.3.18 ***PTPService*** (Data)
- 101.4.3.19 ***PTPCapacity*** (Data)
- 101.4.3.20 ***NITSAncillaryReservation*** (Data)
- 101.5.4 ***AuditNITSRequest*** (Query)
- 101.5.5 ***AuditNITSRequestDetails*** (Query)
- 101.6.1 ***AddNITSDNR/TerminateNITSDNR*** Integration
- 101.6.2 ***AddNITSSecondary/TerminateNITSSecondary*** Integration
- 101.6.3 ***AddPTPService*** Integration