Business Requirements Specification

Operations Notification System (ONS)

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Revision History

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1 Introduction

1.1 Purpose

The purpose of this document is to capture and record a description of what the Users and Business Stakeholders of the project wish to obtain, by providing high level business requirements. This document establishes the basis for the agreement between the initiators and implementers of the project. The information in this document serves as input to determine the scope of projects and all Business Process Modeling and System Requirements Specifications (SRS) efforts.

Business requirements are what must be delivered to provide value for the Users and Business Stakeholders. Systems, software, and processes are the ways (how) to deliver, satisfy, or meet the business requirements (what).

- Initial BRS: The Initial BRS will provide sufficient information to determine the scope of the project and will provide the functional business requirements needed to make the Architecture Decision.

- Final BRS: Following the Architecture Decision, the remaining non-functional business requirements, such as data, performance, web services, and security can be added to complete the Final BRS.

Background:

Operations aims to have fewer tools that operators use for managing communications to external parties. The current tool is nearing its end of life. This provides an opportunity to consolidate these tools to a single tool which can reach various audiences (AWE subscribers are a mix of Market Participants, regulatory agencies, and other interested parties).

Scope of Project:

- Updating names of messages
- Updating templates
- Replacement tool
- Specific training environment for this tool (ability to practice sending this message out)
- Process Map Update

2 Intellectual Property Ownership

Intellectual Property covers a broad array of information and materials, including written works, computer programs, software, business manuals, processes, symbols, logos, and other work products. Determining ownership of Intellectual Property is very important in preserving the rights of the California ISO, and helps to avoid Intellectual Property infringement issues. In considering the business requirements or service requirements to be performed, the business owner of the project must determine Intellectual Property Ownership.

2.1 Guidelines

Intellectual Property ownership must be considered by all applicable stakeholders before the services are performed. The level of analysis is two-fold:

1. One, the business owner must determine if the Intellectual Property necessary to perform the services is owned by the California ISO or whether it must be obtained from a third party. Once the California ISO has secured the proper Intellectual Property rights to perform the services (i.e., the Intellectual Property is owned by the California ISO or we have licensed it from a third party), the California ISO can undertake the next step.

2. The second step in the analysis is to consider whether new Intellectual Property will be created as a result of the business requirements or service requirements to be performed, and how that Intellectual Property will be owned and protected by the California ISO.

In order to assist the business owner in the analysis previously described, refer to the California Intellectual Property Policy available at: http://www.caiso.com/rules/Pages/LegalPoliciesNotices/Default.aspx, which provides a brief tutorial on what Intellectual Property is and how the California ISO can protect its Intellectual Property. Contact the Legal Department if you have any questions regarding Intellectual Property.

There are no impacts to intellectual property based on the requirements stated in this document.

2.2 Acronyms and Definitions Table

Acronym	Definition
AWE	Alert, Warning or Emergency Notice
EEA	Energy Emergency Alert
NERC	North American Electric Reliability Corporation
ONS	Operations Notification System

3 Details of Business Need/Problem

3.1 Description

Business Opportunity/Problem Statement:	
What:	Consolidation of current operations tools into a single tool which can reach various audiences (AWE subscribers are a mix of Market Participants, regulatory agencies, and other interested parties).
When:	Refer to Release Users Group (RUG) postings for updated implementation dates.
Why do we have this opportunity/problem:	Current tools that Operations utilizes is nearing its end of life.
Who does this opportunity/problem impact:	Operations, AWE subscribers, Market Participants, Regulatory Agencies

4 Business Impacts

4.1 Business Practice Manuals (BPM)

BPM	Description of Impact(s)
BPM Change Management	Not Impacted
Candidate CRR Holder Registration	Not Impacted
Compliance Monitoring	Not Impacted
Congestion Revenue Rights	Not Impacted
Credit Management and Market Clearing	Not Impacted
Definitions and Acronyms	Not Impacted
Demand Response	Not Impacted
Direct Telemetry	Not Impacted
Distributed Generation for Deliverability	Not Impacted
Energy Imbalance Market	Not Impacted
Generator Interconnection and Deliverability Allocation Procedures	Not Impacted
Generator Interconnection Procedures	Not Impacted
Generator Management	Not Impacted
Managing Full Network Model	Not Impacted
Market Instruments	Not Impacted
Market Operations	**The following items were updated in the Market Operations BPM in 2022:** • p39 section 2.1.6.4 bullet 2 mentions "staged" emergency, staged should be removed • p115 section 2.5.6 mentions Stage 1, 2, or 3 emergency, should be changed to EEA 2 or 3 • p275 section 6.7.2.5.3 mentions "staged" emergency, staged should be removed

BPM	Description of Impact(s)
Metering	Not Impacted
Outage Management	Not Impacted
Reliability Coordinator Services	Not Impacted
Reliability Requirements	Not Impacted
Rules of Conduct Administration	Not Impacted
Scheduling Coordinator Certification and Termination	Not Impacted
Settlements and Billing	Not Impacted
Transmission Planning Process	Not Impacted

4.2 Other

Impact	Description (optional)
Market Simulation	Yes Unstructured Market Simulation for Market receiving and populating EEA message date and time.
Market Participant Impact	Yes
User Acceptance Testing (UAT)	Yes
Internal Training	Yes
Customer Readiness Impact	Yes – see below.
• **External Communication Needed**	Yes
• **External Onboarding and Maintenance**	Yes
• **External Training**	Yes
• **External Computer Based Training**	Yes
Policy Initiative	No

Impact	Description (optional)
Development/Vendor	Yes
Architectural Framework and Roadmap	This project will follow the architectural framework set forth by the architect.

5 Business Requirements

The sections below describe the business processes and the associated business requirements involved in the project. These may represent high-level functional, non-functional, reporting, and/or infrastructure requirements. These business requirements directly relate to the high-level scope items determined for the project.

5.1 Business Process: Operations Notification System (ONS)

5.1.1 Business Requirements

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EEA – BRQ010	System must have the capability for external users to subscribe to grid status messages. Note: Any external user may subscribe.	Core	CAISO.com

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted

EEA-BRQ023B	Systems must display list of all active events.
	• Active (in effect)
	• Active (future period)
	
	An active event is any notification that has been sent out for a specific time period that has not ended (for event types see BRQ026).
	• Active (in effect): has started in the past and is finishing in the future.
	Active (future period): Notification sent out but Starting and ending period in the future.
	
	And with the following fields:
	
	• Event ID,
	• Alert Type,
	• Region
	• Time periods
	    o Start date time
	    o End date time
	• Messages
	    o Message ID
	    o Post date time
	    o Message Content
		Core	CAISO.com, Today's Outlook, ISO Today Mobile App

ID#	Business Feature	Requirement Type	Potential Application(s) Impacted
EEA-BRQ026	System (ONS) must have the following pre-defined event types at go-live: • EEA 1 • EEA 2 • EEA 3 • EEA 3 - Firm Load Interruption • Restricted Maintenance Operations • Restricted Maintenance Operations - Gas Supply Insufficiency • Generation Restricted Maintenance Operations • System Emergency • Transmission Emergency • Transmission Emergency - Firm Load Interruption • Flex Alert • Test	Core	ONS
EEA-BRQ017	System (OASIS) must receive messages based on predefined message types from ONS (new system) and display on the "System Operation Messages" (existing) OASIS page. *Note: Existing functionality but source system is now ONS instead of CAISO AWE.	Existing*	OASIS