

FOMS Business Requirements Overview

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- Acronyms
- Scope and Objectives
- Overview
- Functions

AA	Advanced Approved
API	Application Programming Interface
FOMS	Facility Outage Management System
FOSS	Facility Outage Scheduling System
IOMS	Integrated Outage Management System
MP	Market Participant
NDO	Non Discretionary Outage
OR	Outage Request
SE	Submitted Equipment
UI	User Interface

Scope:

- Replace the existing IOMS with a new FOMS to:
 - Provide a web UI hosted in the IESO Portal, that will replace the current Email & Fax process (Reference: Form 1360)
 - Provide an API using Web services
 - Maintain and improve the existing IOMS functionality
 - Enhance system performance
 - Add new functionality *to meet the business rules as defined by the Market Rules and Market Manuals*

Objectives:

- Provide all MPs with the ability to directly submit, modify, view status, query and report of their own outages
- Improve the overall efficiency of the outage management process
- Support for improved or new business rules

- Support for outages to Dispatchable Loads
- Meet the IESO performance and availability requirements
- Provision for expected system growth
- Cost effectively maintained and operated
- Improve system information security, data confidentiality and audit requirements

- FOMS represents a set of tools to support and manage the submission, assessment and management of outages to equipment and facilities that affect the operation of the electrical market and grid managed by the IESO
- FOMS provides a central repository for storing and maintaining facility and equipment outage information

- Under the Market Rules FOMS shall enforce the confidentiality of MP
- OR submitted by MP through FOMS may be classified as *Confidential*, and protected appropriately
- FOMS will allow each MP to view OR based on permission rights and business rules
- MP will be able to view:
 - their own outages
 - all transmission system outages, including transmission elements not owned by the MP
 - outages owned by another MP that granted limited viewing rights

- FOMS functions are designed to:
 - Satisfy the applicable Market Rules and Market Manuals (e.g. Market Rule Chapter 5, Section 6; Market Manual 7.3)
 - Improve overall efficiency of the outage management process by automating a number of tasks that are currently performed manually
 - Provide all MP with the ability to:
 - Directly submit, modify and view status of their own outages
 - View status of other outages based on business rules

- Maintain the current IOMS functions
- Enhance some IOMS functions to improve the management and coordination of outages
- Add new functions to improve the management and coordination of outages
- Add new functions to satisfy the Market Rules
- Add new functions to satisfy MP and IESO request of new functions

Outage Summary View

- Default screen to which FOMS will open
- Displays in rows an overview of each OR
- Provides the basis for navigation within FOMS
- Data displayed is customizable and filterable

- Outage Summary View basic features:
 - Column data
 - Customizing columns e.g. resize column width
 - Color coding of records
 - Search by selection
 - Sorting by column data
 - Filtering
 - Expanding OR e.g. view all SE associated with the OR

- Outage Summary View basic features cont'd:
 - Modifying data
 - Opening Outage Detailed Views
 - Opening Outage Work Package View
 - Exporting data
 - Printing

Outage Detailed View

- Used to submit and modify an OR
- View the OR/SE attributes based on permission rights and business rules
- Accessible from any view where outage information is displayed

- Outage Detailed View basic features:
 - Overwriting previously saved data
 - Navigation features
 - Dynamic permissions and validation
 - Duplicate function
 - Equipment pick-list
 - Equipment groups
 - Opening the Outage Work Package View
 - Printing

- Outage Work Package
 - provide means of manually grouping various OR together based on user defined criteria
 - Allow the user to link any OR together with one or more OR, as long as the user has the permission to view these outages
 - OR could be linked to one or more Outage Work Packages

- Equipment Summary View
 - Allows quick identification and selection of equipment via a display that shows multiple equipment along with their attributes in summary form
 - MP can view and select only equipment based on permission rights and business rules
 - Basic features include: column display, filtering, sorting, color coding, printing

- 14-Days Advanced Outage Approval
 - Able to recognize outages which require 14-days advanced approval
 - Apply new business rules as per Market Rules requirements to manage these OR

- Replacement Energy to Support Planned OR
 - Allows the MP to flag their commitment to purchase replacement energy in order to receive advanced and/or final approval
 - Apply new business rules as per Market Rules requirements to manage the OR for which the MP decided to purchase replacement energy

- Notification of outages “At Risk”
 - Notify the MP as far in advanced as possible if an OR is considered at risk due to reliability concerns
 - Specify the reason an outage is considered at risk
 - Provide the MP with information regarding their time stamp position and total MW ahead in the queue before the outage will be no longer at risk

- Non-Discretionary Outages
 - Allows the MP to flag an OR as a NDO
 - Provisions to manage and trace NDO
 - Note: NDO requirements are still under review with the Outage Planning Sub-Committee
- Dispatchable Loads Outages
 - Provision to support OR to dispatchable loads e.g. planned/forced outages and derates

- Notification
 - MP can subscribe to be notified of changes to an OR based on various conditions related to an OR e.g. notify me when an outage has reached a certain state i.e. AA, Completed
 - Notification displayed:
 - Via a subscription notification box; and/or
 - Via an email

- Current IOMS functions are enhanced to satisfy the Market Rules requirements regarding outage management e.g.:
 - Submission and confirmation of outages
 - Rescheduling of outages
 - Revocation and deferral of outages
 - Modifying outages during certain states



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Questions...