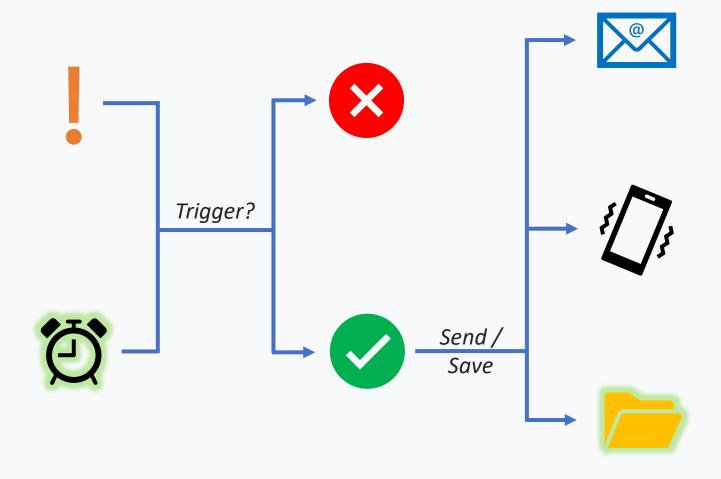




The openXDA Notifications

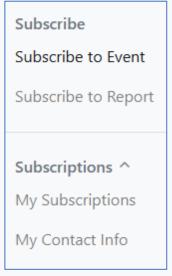
What's New in 3.0



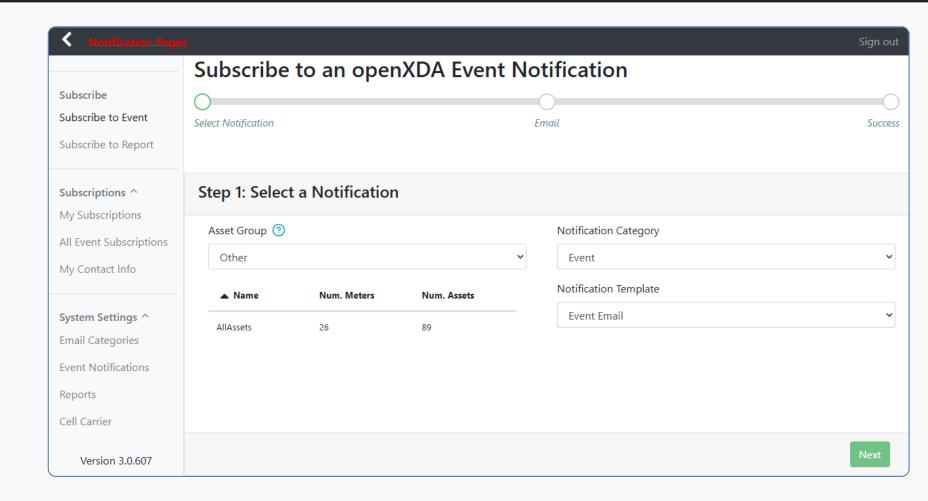
- Scheduled notifications
- Control over which templates users can selfsubscribe to
- Approval can be required per template, per asset group
- Save as file

Notification Pages

- Subscribe
- Configure
- Manage



"Viewer" Menu



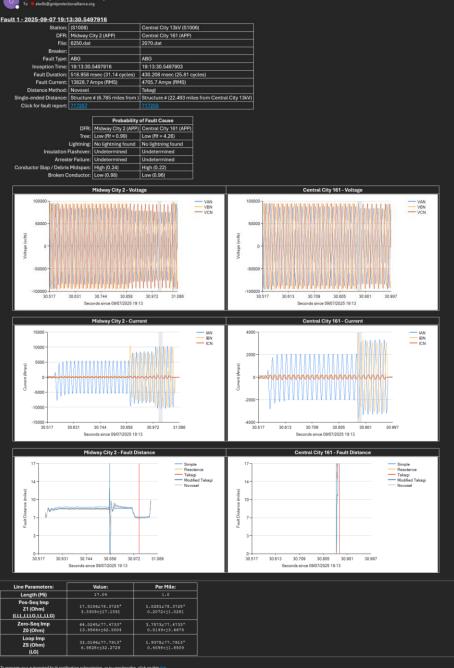


What is it?

- Templated notifications built using data from and available to openXDA – including miMD and openMIC data
- XSL for formatting
- SQL, FTT, and PQI data sources
- Configurable triggers

Requires: Notification Pages web (IIS) application and SMTP server

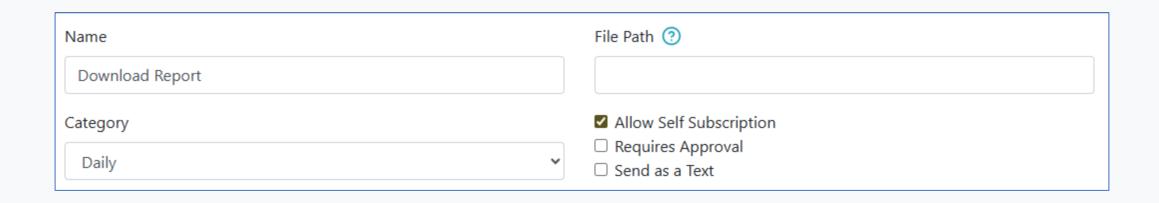




Fault detected on Keystone-Midway 161kV Line 1 (L1018

Notification Attributes - General

- Category configurable groupings for templates to make selecting self-subscriptions easier
- File Path specify the path where the file should be saved; the "email subject" is used as the file name





Notification Attributes - Timing

Event Notifications (Triggered)

- Delay the maximum and minimum amount of time to wait before sending
 - For double-ended fault notification



Reports (Scheduled)

 Cron-formatted schedule allows for granular control over timing





Triggers and Filters

When and event is processed or the schedule indicates, openXDA checks the "Trigger SQL," a SQL query that evaluates to a Boolean (1 or 0), to determine if the notification should be sent.

Event notifications also use a "Suppression SQL" that returns a list of events that should **not** trigger a notification to prevent flooding, e.g., "duplicate" events that happened on the same asset within a certain window.

Examples:

- Event notification that triggers on faults that were processed in the last 24 hours and more than 2 seconds apart on the same asset
- A scheduled report that only sends if updates are available since the last report



Data Sources

- Generic SQL available for both event and scheduled notifications
 - Requires connection string, data provider, query, and openXDA service account read access to the database
- EPRI Power Quality Investigator and open Fault Trace Tool available for event notifications
 - PQI returns affected equipment information for configured customers
 - FTT used to query the Fault Trace Tool and include GIS images and links in fault notifications
- HIDS (InfluxDB) and Azure available for scheduled
 - HIDS queries InfluxDB for trend data reports
 - Azure queries user job title and position to compare to the corresponding System Center Additional Field value for changes, e.g., to send reports to admins for application role adjustment



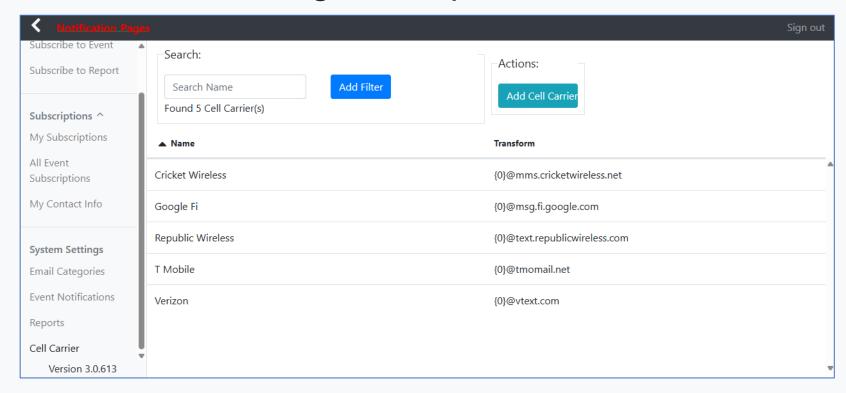
Template

- Leverages XML return from Data Source(s) to format the data into the desired presentation
- Allows for data transformation into HTML, plain text, or other XML-based formats (e.g., XML, KML, etc.)
- Charts with voltage, current, and fault distance values available
- Completely custom! If openXDA can retrieve it using a Data Source, it can be included



Important Notes About Texting

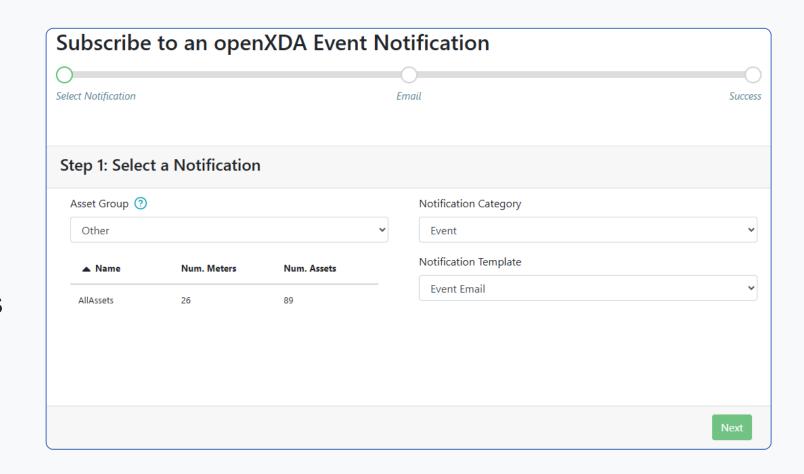
- Ensure your template is simple
- Carriers can often block mass messages as spam
 - Carrier plans
 - Mass notification systems
 - Use the Cell
 Carrier page to manage cellular domains





Subscribing

- Event and Report subscription looks much the same
- Select an Asset Group, Category, and Template
- If the Template is an email and no email is associated with the account, the user's address will need to be confirmed; same for phone number and text notifications
- If the template requires approval, the configured admin will be notified to approve or deny





•Sets the minimum number of samples in an email chart.

•The password used to authenticate to the SMTP server.

•The username used to authenticate to the SMTP server.

•See cron for information about cron format.

•Values less than or equal to zero indicate no minimum threshold.

•Remove this field from system settings if no authentication is required.

•The cron-formatted schedule that determines when MiMD summary emails will be sent.

•Remove this field from system settings or leave it blank if no authentication is required.

•The number of minutes during which a duplicate email should not be sent.

•Flag that determines whether the system will send event-triggered emails.

•URL to re-enable the email processor after being stopped due to flooding.

•The HTML-formatted body of the email sent to confirm a user's email address.

•Flag indicating whether to require confirmation of a user's email address.

•The subject line of the email sent to confirm a user's email address.

•Values less than or equal to zero will disable this functionality.

•Values less than or equal to zero will disable this functionality.

tripping the email flooding detection logic.

Leave this field blank to disable blind-copy.

Appendix – Re	levant Settings

Name

Email.AdminAddress

Email.EnableSSL

Email.Password

Email.SMTPServer

Email.Username

EventEmail.Enabled

EventEmail.MaxEmailCount

EventEmail.MaxEmailSpan

EventEmail.RestorationURL

Subscription.ConfirmSubject

Subscription.ConfirmTemplate

Subscription.RequireConfirmation

Email.SummaryEmailSchedule

EventEmail.EmailDuplicateThresholdMinutes

Email.FromAddress

Email.MinimumChartSamplesPerCycle

Email.BlindCopyAddress

Setti	nas	
	nga	

•The email address placed on the To line when blind-copying email recipients.

•Flag that determines whether to enable SSL when establishing communications with the SMTP server.

•The email address placed on the From line of the emails sent by the System Center Notification service.

•The hostname or IP address of the SMTP server used for sending emails from the System Center Notification service.

•The maximum number of emails the system should send within the time range specified by EventEmail.MaxEmailSpan before automatically stopping the email processor.

•The number of seconds that defines the time range over which emails will be counted to compare with the EventEmail.MaxEmailCount in order to detect email flooding.

*The email address of the administrator of the email system who receives system notifications for taking administrative actions, such as self-subscription approval and restoration of the email system after

Appendix –	Relevant Settings
------------	-------------------

Definition