

## webTADS Application Update

November 19, 2020

Changes to webTADS	
Enhancements	Description
Fault validation types that align with Data Reporting Instructions (DRI)	<p>If the Outage Initiation Code is:</p> <ul style="list-style-type: none"> <li>• Element Initiated, AC Substation-Initiated, AC/DC Terminal Initiated, then any Fault Type is valid.</li> <li>• Other Element-Initiated, Other Facility-Initiated, or Protection System-Initiated, then the Fault Type selected must be No Fault (NF).</li> </ul>
Events Spanning Multiple Years	<ul style="list-style-type: none"> <li>• Changes to the Event Spanning Multiple Years must be performed in conjunction with the Form 4.x Removal of Event ID Manual entry change</li> <li>• Form 4.x Entry Interface                             <ul style="list-style-type: none"> <li>▪ Event ID Code dropdown list shows all eligible Event ID Codes. This includes current year Event ID Codes and spanned over Event ID Codes. This list will be:                                     <ul style="list-style-type: none"> <li>○ All company generated Events of Year N.</li> <li>○ NERC generated NERC Multiunit (NMU) events of year N.</li> <li>○ Spanned over Events from previous year N-1.</li> <li>○ Spanned over Events from previous year N-2.</li> </ul> </li> </ul> </li> </ul> <p>Single Mode Outage Validation Changes</p> <ul style="list-style-type: none"> <li>• Within the current Reporting Period, the Event ID Code cannot be shared between two (2) outages if any one (1) of them is a Single mode outage. This is a current validation, but was adjusted to allow for sequential years.</li> </ul>

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	<ul style="list-style-type: none"> <li>• Validation added to check the prior year or years Outages, in the case where an Event ID is associated with a prior Reporting Period.               <ul style="list-style-type: none"> <li>▪ The Event ID can be used in sequential years if the ID in the prior year has the continuation code of “Continues into next period” for year N-1 and either “Continues into next period” or “Started in a previous period” in Year N.</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Validation added to check the prior year or years Outages, in the case where an Event ID is associated with a prior Reporting Period.               <ul style="list-style-type: none"> <li>▪ In this case, the Event ID must be used in sequential years if the ID in the prior year has the continuation code of “Continues into next period” for year N-1 and either “Continues into next period” or “Started in a previous period” in Year N. If the Event ID spanning multiple years is not utilized in the subsequent year, it will generate an error. If the Event ID is not used in the subsequent year, a person with the ability to edit a prior year’s data can change the continuation code.</li> </ul> </li> <li>• Validate the Outage Mode is the same mode as used in the prior year’s outage.</li> </ul>
	<ul style="list-style-type: none"> <li>• All other Outage Validation Changes               <ul style="list-style-type: none"> <li>▪ Outage ID Code Changes - If the Event ID is from a prior Reporting Year, the Outage ID code can be a duplicate of the Outage ID associated to the prior year’s Event ID or it can be unique.</li> </ul> </li> <li>• Form 4.x Import process was updated to add the same validation rules</li> <li>• Checklist Validation Changes               <ul style="list-style-type: none"> <li>▪ Checklist Event ID Code validation will update the address the Event ID Code changes.</li> <li>▪ Checklist Mode validation will update the address the Single Mode Outage changes.</li> </ul> </li> </ul>

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	<ul style="list-style-type: none"> <li>▪ Checklist Outage ID Code validation will update the address the Outage ID Code changes.</li> </ul>
Enhanced Event ID validations	<p>If an Event ID is associated to two (2) or more outages (Form 4.x and 6.x), the following validations will run on entry and during the quarterly or annual validation process:</p> <ul style="list-style-type: none"> <li>• Outage start times for each Outage must be within the Outage Tolerance value.</li> <li>• Outages identified as being outside of the “Tolerance,” either by manual entry, import, or update to another record, will present a Warning to the user. This warning will alert the user to let them know one of the records associated to the Event ID is outside of the NERC defined Tolerance range.</li> <li>• Outages with a Tolerance Warning allow the user to save the record.</li> </ul>
	<p>If an Event ID is associated to two (2) or more outages (Form 4.x and 6.x), the following validations will be run on entry and during the quarterly or annual validation process:</p> <ul style="list-style-type: none"> <li>• An import warning/error message</li> <li>• On the Checklist Entry, if there are outages with a Tolerance Warning, the user is allowed to mark the Q1, Q2, and Q3 as completed.</li> <li>• On the Checklist Entry, if there are outages with a Tolerance Warning, the user is not able to mark the Q4 as complete. These Tolerance warnings will produce a Fatal Error on checklist when validating and attempting to complete the Reporting Period.</li> <li>• Multiple outages of the same element within the same event are not allowed.</li> </ul>
	<p>NERC and Region Extended Cascading Tolerance Functionality</p> <ul style="list-style-type: none"> <li>• The company user can request NERC or their Region to override the Error for the Event ID(s).</li> <li>• Changes on Form 5.0 (Event ID Codes) - Entry.</li> </ul>

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	<ul style="list-style-type: none"> <li>▪ The new Extended Cascading Tolerance field is a read only field, displaying either Yes or No.</li> <li>▪ By default this field displays “No”.</li> <li>▪ Added a “Request Override” button to the bottom of the page button bar.</li> <li>▪ This button is only for Company users.</li> <li>▪ This button is only visible for Event ID’s associated to the Warning/Error.</li> <li>▪ Once pressed, the button will be hidden.</li> </ul>
	<p>NERC and Region Extended Cascading Tolerance Functionality.</p> <ul style="list-style-type: none"> <li>• Changes on Form 5.0 (Event ID Codes) - Entry.               <ul style="list-style-type: none"> <li>▪ When the Request Override button is pressed, an email is now sent to the Company user, NERC and the Regional Contact.</li> </ul> </li> <li>• If an override is provided for an Event ID, the Tolerance Error is bypassed for this one Event ID.</li> <li>• Once the Checklist is completed, this is a read only field for all. NERC and Regional users are not able to change this setting after the Checklist has been completed.</li> </ul>
	<p>Event ID Code (Form 5.0) Disturbance Report</p> <ul style="list-style-type: none"> <li>• On the Event ID Code interface, the ability to select “Unknown” from the Disturbance Report field dropdown has been removed. The only options the user has on this field is Yes or No.</li> <li>• The ability to import the value of “Unknown” in the Form 5.0 Extensible Markup Language (XML) import file is not allowed for the field DisturbanceReportFieldDesc. The only values the user is able to import for the DisturbanceReportFieldDesc field is Yes or No.</li> </ul>

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	<ul style="list-style-type: none"> <li>Existing Form 5.0 data with a Disturbance Report field value of “Unknown” will not be impacted by these changes.</li> </ul>
Cleanup of embedded documentation	<ul style="list-style-type: none"> <li>webTADS Documentation files, were updated to ensure the contents of the documents are in concert with the application functionality and screenshots are as the application looks.</li> <li>webTADS User Registration Guide v1.0 was updated to address just the Registration process for the NERC Portal, regardless of the application (webDADS, webE-GADS, and webTADS) utilized and is available on the initial login interface.</li> </ul>
Benchmarking	<p>The following webTADS reports have been updated to allow users to benchmark their statistics versus their Region or NERC level statistics:</p> <ul style="list-style-type: none"> <li>Adequate Level of Reliability (ALR) Metrics</li> <li>Event Counts</li> <li>Outage Counts v4.0</li> <li>Automatic Outage Metrics v4.0</li> </ul>
	<p>Data limits required to provided Region or NERC level statistics, all must be satisfied:</p> <ul style="list-style-type: none"> <li>A Company must have assets in a specific classification to allow statistics to be returned. If the Company does not have any assets in a classification, the report will return no data for the classification on the report.</li> <li>There must be at least three (3) Companies with elements in the classification to allow statistics to be returned.</li> <li>There must be at least five (5) elements in the classification to allow statistics to be returned.</li> </ul>

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	<p>Reporting Interface Filter Changes</p> <ul style="list-style-type: none"> <li>• Two (2) additional filters were added to the above listed reports:               <ul style="list-style-type: none"> <li>▪ Regional Statistics</li> <li>▪ NERC Statistics</li> </ul> </li> <li>• Both filters are               <ul style="list-style-type: none"> <li>▪ Checkbox filters</li> <li>▪ Default to being unchecked</li> <li>▪ Disabled, unless a Company is selected in the Company Filter.</li> </ul> </li> <li>• After a Company is selected, the user will be able to select one (1) or both filters (there is no requirement to select one to get the other filter).</li> <li>• When the interface filter is selected, applicable Region and/or NERC level statistics are added to the interface.</li> </ul>
	<p>Report Interface Changes</p> <ul style="list-style-type: none"> <li>• Adequate Level of Reliability (ALR) Metrics.               <ul style="list-style-type: none"> <li>▪ The existing company report data section now has a title row and will have with the label “Company Name” – ALR.</li> </ul> </li> <li>• A new section was created below the Company report with the label “Region” – ALR.               <ul style="list-style-type: none"> <li>▪ The Region report is only displayed if the “Include Regional Statistics” filter is checked.</li> <li>▪ The structure of the Region report is the same as the Company report.</li> <li>▪ The Region level statistics are calculated the same as the Company level statistics.</li> <li>▪ Only report values where all of the data limit requirements within the Region are met are displayed. If the data limit requirements are not met and the company the report</li> </ul> </li> </ul>

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	<p>is for has assets in the classification, an “X” will be displayed. If the company the report is for does not have assets in the classification, a “-” will be displayed.</p>
	<p>Report Interface Changes</p> <ul style="list-style-type: none"> <li>• A new section has been created below the Company/Region report with the label “NERC – ALR.”           <ul style="list-style-type: none"> <li>▪ The NERC report is only displayed if the “Include NERC Statistics” filter is checked.</li> <li>▪ The structure of the NERC report is the same as the Company report.</li> <li>▪ The NERC level statistics are calculated the same as the Company level statistics.</li> <li>▪ Only report values where all of the data limit requirements within NERC are met are displayed.               <ul style="list-style-type: none"> <li>○ If the data limit requirements are not met and the company the report is for has assets in the classification, an “X” will be displayed.</li> <li>○ If the company the report is for does not have assets in the classification, a “-” will be displayed.</li> </ul> </li> </ul> </li> </ul>
	<p>Event Counts</p> <ul style="list-style-type: none"> <li>• Under the heading “Event ID” the existing columns “Count” and “%” are grouped under a heading labeled “Company”.</li> <li>• To the right of the Company columns, two Region data columns were added with the labels of “Count” and “%” and grouped under the heading “Region”.           <ul style="list-style-type: none"> <li>▪ The Region columns are only displayed if the “Include Regional Statistics” filter is checked.</li> <li>▪ The Region level statistics are calculated the same as the Company level statistics.</li> </ul> </li> </ul>

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	<p>Event Counts</p> <ul style="list-style-type: none"> <li>• To the right of the Company/Region columns, two NERC data columns have been added with the labels of “Count” and “%” and grouped under the heading “NERC”.           <ul style="list-style-type: none"> <li>▪ The NERC columns are only displayed if the “Include NERC Statistics” filter is checked.</li> <li>▪ The NERC level statistics are calculated the same as the Company level statistics.</li> </ul> </li> <li>• Only report values where all of the data limit requirements within the NERC are met will be displayed.           <ul style="list-style-type: none"> <li>▪ If the data limit requirements are not met and the company the report is for has assets in the classification, an “X” will be displayed.</li> <li>▪ If the company the report is for does not have assets in the classification, a “-” will be displayed.</li> </ul> </li> </ul>
	<p>Outage Counts</p> <ul style="list-style-type: none"> <li>• The existing company report data section had a title row added and has the label “Company Name” – “Section Title”.</li> <li>• Below each Company section in the Company report a new section with the label “Region” – “Section Title” is available.           <ul style="list-style-type: none"> <li>▪ The Region report is only displayed if the “Include Regional Statistics” filter is checked.</li> <li>▪ The structure of the Region report is the same as the Company report.</li> <li>▪ The Region level statistics is calculated the same as the Company level statistics.</li> </ul> </li> </ul>

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	<p>Outage Counts</p> <ul style="list-style-type: none"> <li>• Below each Company/Region section in the Company report, there is a new section with the label “NERC” – “Section Title”. <ul style="list-style-type: none"> <li>▪ The NERC report is only displayed if the “Include NERC Statistics” filter is checked.</li> <li>▪ The structure of the NERC report is the same as the Company report.</li> <li>▪ The NERC level statistics are calculated the same as the Company level statistics.</li> <li>▪ Only report values, where all of the data limit requirements within NERC are met, are displayed. If the data limit requirements are not met and the company the report is for has assets in the classification, an “X” will be displayed. If the company the report is for does not have assets in the classification, a “-” will be displayed.</li> </ul> </li> </ul>
	<p>Automatic Outage Metrics v4.0</p> <ul style="list-style-type: none"> <li>• The existing company report data section has a new title row and has the label “Company Name” – Automatic Metrics v4.0.</li> <li>• A new section was created below the Company report with the label “Region” – Automatic Outage Metrics v4.0. <ul style="list-style-type: none"> <li>▪ The Region report is only displayed if the “Include Regional Statistics” filter is checked.</li> <li>▪ The structure of the Region report is the same as the Company report.</li> <li>▪ The Region level statistics are calculated the same as the Company level statistics.</li> </ul> </li> </ul>

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	<p>Automatic Outage Metrics v4.0</p> <ul style="list-style-type: none"> <li>• A new section was created below the Company/Region report with the label “NERC” – Automatic Outage Metrics v4.0.               <ul style="list-style-type: none"> <li>▪ The NERC report is only displayed if the “Include NERC Statistics” filter is checked.</li> </ul> </li> <li>• The structure of the NERC report is the same as the Company report.</li> <li>• The NERC level statistics are calculated the same as the Company level statistics.</li> <li>• Only report values where all of the data limit requirements within NERC are met are displayed. If the data limit requirements are not met and the company the report is for has assets in the classification, an “X” is displayed. If the company the report is for does not have assets in the classification, a “-” is displayed.</li> </ul>