

General Interface challenges

SUITE > Login > Upload > E-mail

Historical Outages Filter

Company: **Dominion Energy Marketing, Inc.** User Name: **kenn183**

Start Date	End Date	Effective During	Cause
6/1/2008	6/30/2008	<input type="checkbox"/>	<ul style="list-style-type: none"> Add SF-6 Gas C.B. Overhaul C.B. Replacement CB Maintenance Cable Repair

What does this do?

Ticket ID	Ticket Status	Company	Zone
	Completed	Commonwealth Edison Company	<ul style="list-style-type: none"> CE COMED DOE ILL_EQ SIPC SPP_EQ WEST WIS_EQ

*Lots of zones...many have no data.
No Multi-select*

Type	Station	Voltage
<ul style="list-style-type: none"> BRKR CAP LINE PS SD XFMR 	<ul style="list-style-type: none"> 0108 0703 0704 0707 0708 0709 0710 07AIR_QY 07ALGIER 07ANDRSN 	69 KV

Why do you have to select 'Type' then 'Station' then 'Equipment'?

Submit Form Download Main Menu

Equipment

- 07AIR_QY A_458B57 CB
- 07AIR_QY A_458B57 CB
- 07AIR_QY B CB
- 07AIR_QY C CB

eDART enhancement discussion

Many market participants ‘dump’ data out of this application to be used for analytics.

Transmission outage tickets are numerous, can be overlapping (time and facilities), and planned outages are often modified.

Could the current structure of this application be improved upon to improve capabilities for analytical staff?

If one wanted to find out if any outages in occurred March 2008 that could have impacted LMPs at Stateline...

Historical Outages Filter			
Company: Dominion Energy Marketing, Inc. User Name: kenn183			
Start Date	End Date	Effective During	Cause
<input type="text" value="3/1/2008"/>	<input type="text" value="3/31/2008"/>	<input type="checkbox"/>	<ul style="list-style-type: none">Add SF-6 GasC.B. OverhaulC.B. ReplacementCB MaintenanceCable Repair
Ticket ID	Ticket Status	Company	Zone
<input type="text"/>	Completed	<input type="text" value="Commonwealth Edison Company"/>	<input type="text" value="COMED"/>
Type	Station	Voltage	Equipment
<input type="text" value="LINE"/>	<input type="text" value="7 STATE"/>	<input type="text" value="345 KV"/>	<input type="text" value="7 STATE -177 BURN 0722"/>
<input type="button" value="Submit Form"/> <input type="button" value="Download"/> <input type="button" value="Main Menu"/>			

Current Output

Historical Outages Filter											
Company: Dominion Energy Marketing, Inc. User Name: kenn183 Last Sync: 10/20/2008 21:02											
Ticket Info				Equipment							
Company: Commonwealth Edison Company Ticket ID: 71886 Start Date: 01/05/2004 08:00 Status: Completed End Date: 01/16/2004 19:00 Out. Type: Continuous Last Revised: 01/16/2004 21:35 Cause: Unknown				Status	Type	Station	Voltage	Equip. Name	Zone	Start Time	End Time
				O	LINE	7 STATE	345 KV	7 STATE -177 BURN 0722	COMED	01/05/2004 08:00	01/16/2004 19:00
				C	BRKR	7 STATE	345 KV	7 STATE L 45BT3-4 M	COMED	01/05/2004 08:00	01/16/2004 19:00
				O	BRKR	7 STATE	345 KV	7 STATE L 45L0722 D	COMED	01/05/2004 08:00	01/16/2004 19:00
				O	BRKR	177 BURN	345 KV	177 BURNH 45L0722 M	COMED	01/05/2004 08:00	01/16/2004 19:00
				O	BRKR	177 BURN	345 KV	177 BURNH 45BT2-12 CB	COMED	01/05/2004 08:00	01/16/2004 19:00
				O	BRKR	177 BURN	345 KV	177 BURNH 45BT11- 12 CB	COMED	01/05/2004 08:00	01/16/2004 19:00

An example of excel format output

Ticket ID	Ticket Company	TicketStatus	Ticket Outage Type	Ticket Cause	Ticket Start Date	Ticket End Date	Ticket Last Revised	Equipment Status	Equipment Type	Equipment Station	Equipment Voltage	Equipment Name	Equipment Zone	Equipment Start Time	Equipment End Time
228196	Commonwealth Edison Company	Completed	Continuous	Inspection/Maintenance	03/17/2008 9:00	03/21/2008 17:00	03/21/2008 21:07	0	BRKR	7 STATE	345 KV	7 STATE L 45BT2-4 CB	COMED	3/17/2008 9:00	3/21/2008 17:00
228196	Commonwealth Edison Company	Completed	Continuous	Inspection/Maintenance	03/17/2008 9:00	03/21/2008 17:00	03/21/2008 21:07	0	BRKR	7 STATE	345 KV	7 STATE L 45TR82 M	COMED	3/17/2008 9:00	3/21/2008 17:00
228196	Commonwealth Edison Company	Completed	Continuous	Inspection/Maintenance	03/17/2008 9:00	03/21/2008 17:00	03/21/2008 21:07	0	XFMR	7 STATE	345 KV	7 STATE LIN 45TR82 CT	COMED	3/17/2008 9:00	3/21/2008 17:00
228196	Commonwealth Edison Company	Completed	Continuous	Inspection/Maintenance	03/17/2008 9:00	03/21/2008 17:00	03/21/2008 21:07	0	BRKR	7 STATE	345 KV	7 STATE L 45BT3-4 M	COMED	3/17/2008 9:00	3/21/2008 17:00
228196	Commonwealth Edison Company	Completed	Continuous	Inspection/Maintenance	03/17/2008 9:00	03/21/2008 17:00	03/21/2008 21:07	0	LINE	7 STATE	345 KV	7 STATE - 177 BURN 0722	COMED	3/17/2008 9:00	3/21/2008 17:00
228196	Commonwealth Edison Company	Completed	Continuous	Inspection/Maintenance	03/17/2008 9:00	03/21/2008 17:00	03/21/2008 21:07	0	BRKR	7 STATE	345 KV	7 STATE L 45L0722 D	COMED	3/17/2008 9:00	3/21/2008 17:00

Specific example

Five records are for the same equipment, 'TWINBRAN L2 CB', and sorted by 'LastReviseDate'.

It is very difficult to determine if they are talking about the same outage because

1. They have different Ticket ID and PJM Ticket ID
2. The outage intervals appear to cover each other
3. The status changed from Revised to Received, Revised, Active, and then Approved.
4. How could the outage from 8/20/2008 8:00 to 8/20/2008 at 11:00 be approved after the outage from 8/18/2008 to 9/22/2008 has been activated?

Specific example

To make the interface more user friendly, the query tools should allow users to

- 1) Select multiple zones in one query.
- 2) Customize the items (fields) to query.

Example 1:

ticket_info	ticket_id	ticket_desc	ticket_zone	ticket_status	ticket_start	ticket_end	ticket_type	ticket_priority	ticket_created	ticket_updated	ticket_assigned	ticket_status	ticket_id	ticket_status
247	Appalachia	Open	TWINBRA 345 KV	TWINBRA >	11/24/2008 16:00:00	11/24/2008 07:30:00	BRKR	AEP	11/24/2008 16:00:00	11/24/2008 07:30:00	05/09/2008	Continuou	234114	Revised
122	Appalachia	Open	TWINBRA 345 KV	TWINBRA >	9/22/2008 16:00:00	9/15/2008 07:30:00	BRKR	AEP	9/22/2008 16:00:00	9/15/2008 07:30:00	07/31/2008	Continuou	346291	Received
139	Appalachia	Open	TWINBRA 345 KV	TWINBRA >	9/25/2008 16:00:00	9/22/2008 07:30:00	BRKR	AEP	9/25/2008 16:00:00	9/22/2008 07:30:00	08/06/2008	Continuou	234113	Revised
19	Appalachia	Open	TWINBRA 345 KV	TWINBRA >	9/22/2008 16:00:00	8/18/2008 07:15:00	BRKR	AEP	9/22/2008 16:00:00	8/18/2008 07:15:00	08/18/2008	Continuou	346288	Active
40	Appalachia	Open	TWINBRA 345 KV	TWINBRA >	8/20/2008 11:00:00	8/20/2008 08:00:00	BRKR	AEP	8/20/2008 11:00:00	8/20/2008 08:00:00	08/18/2008	Continuou	347668	Approved

Example 2:

ticket_info	ticket_id	ticket_desc	ticket_zone	ticket_status	ticket_start	ticket_end	ticket_type	ticket_priority	ticket_created	ticket_updated	ticket_assigned	ticket_status	ticket_id	ticket_status
9	-1 Other	Appalachian Power Company (AEP Transmission)							10/1/2008 16:00:00	6/13/2008 21:26:00	07/28/2008	Continuou	344796	344796 Active
9	10 Switching	Appalachian Power Company (AEP Transmission)							10/1/2008 16:00:00	6/13/2008 21:26:00	07/28/2008	Continuou	344796	Active
9	32 Emergency	Appalachian Power Company (AEP Transmission)							10/1/2008 16:00:00	6/13/2008 21:26:00	07/28/2008	Continuou	344796	Active
9	Appalachia	Open	BRUES 138 KV	BRUES >	10/1/2008 16:00:00	6/13/2008 21:26:00	BRKR	AEP	10/1/2008 16:00:00	6/13/2008 21:26:00	07/28/2008	Continuou	344796	Active
9	Appalachia	Open	BRUES 138 KV	BRUES >	10/1/2008 16:00:00	6/13/2008 21:26:00	BRKR	AEP	10/1/2008 16:00:00	6/13/2008 21:26:00	07/28/2008	Continuou	344796	Active

Potential solutions

- 1) Assign a unique ID to each B1B2B3 equipment as one primary key.
- 2) Use same Ticket ID to revise the outage interval.
- 3) Use Status as another primary key.
- 4) Add new record for an existing outage using same Ticket ID when the status of this outage changes.
- 5) The status should be changed in the order of Received, Revised, Cancelled, Approved, and then Active.

Potential solutions

To make the interface more user friendly, the query tools should allow users to

- 1) Select multiple zones in one query.**
- 2) Customize the items (fields) to query.**