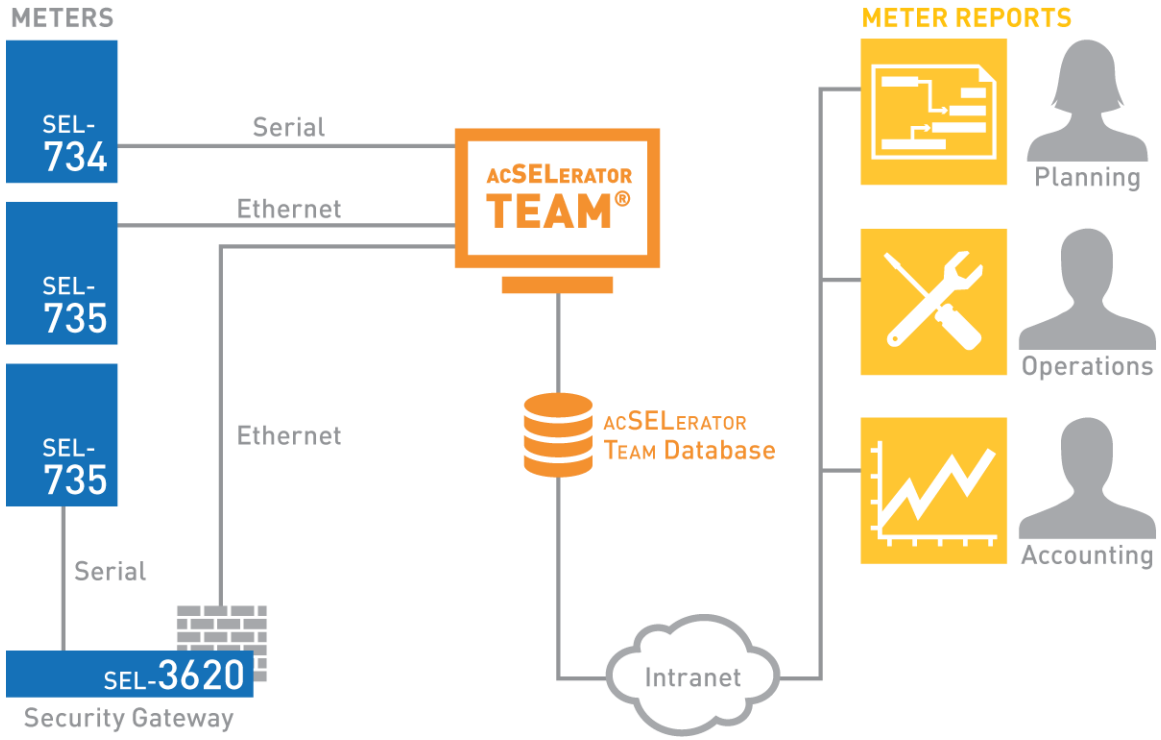
ACSELERATOR Meter Reports SEL-5630 Software

Transform Metering Data Into Action



Features and Benefits

Increase efficiency and decrease costs by monitoring system energy consumption and identifying peak demands. ACSELERATOR Meter Reports SEL-5630 Software generates reports from load data profile, voltage sag/swell/interruption, and Sequential Events Recorder (SER) data collected from SEL devices. Meter Reports optimizes reports for printing or exporting to Microsoft Excel for further analysis.

- Manage energy consumption data from devices throughout your system
- Identify areas or processes with high demand and drive efficiency initiatives
- Lower costs by rescheduling coincidental high demand processes
- Analyze historical data to predict system trends and make future plans
- Monitor and analyze power quality with VSSI reports to increase reliability
- Categorize power quality events with Information Technology Industry Council Computer and Business Equipment Manufacturer's Association (ITI [CBEMA]) graphs of voltage sag, swell, and interruption (VSSI) events
- Aggregate data from multiple devices to totalize or exclude submeter data
- Define metering point groups to simplify creation of higher level reports
- Identify losses between metering points or calculate consumption at unmetered points
- Unify water, air, gas, electricity, and steam (WAGES) usage in one report

Device Overview Report

View all of your metering assets. Display system device information:

- ➤ Metering point name
- ➤ Enabled status
- ➤ Location
- ➤ Time zone, UTC offset, and DST

Device Overview Report

9/2/2014 11:25:46 AM

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Metering Point	Enabled	Device Name	In Service	Location	Time Zone	UTC Offset	DST
2270N Metering Point	True	2270N_734	True	2270N	US/Pacific	-07:00:00	True
2270S Metering Point	True	2270S_734	True	2270S	US/Pacific	-07:00:00	True
2350 C Metering Point	True	2350_C_734	True	2350	US/Pacific	-07:00:00	True
2350 N Metering Point	True	2350_N_734	True	2350	US/Pacific	-07:00:00	True

Load Data Profile (LDP)

LDP Data Preview

Quickly view LDP data and visually refine the report with an interactive view of load data profile information for a selected time period. Create a report or hover your mouse over data points for a view of the channel values at that point in time.

LDP Report

View trends and inspect records with graphical and tabular views of load profile data from a selected metering point, device, or metering point group.

LDP Report

9/2/2014 12:20:30 PM

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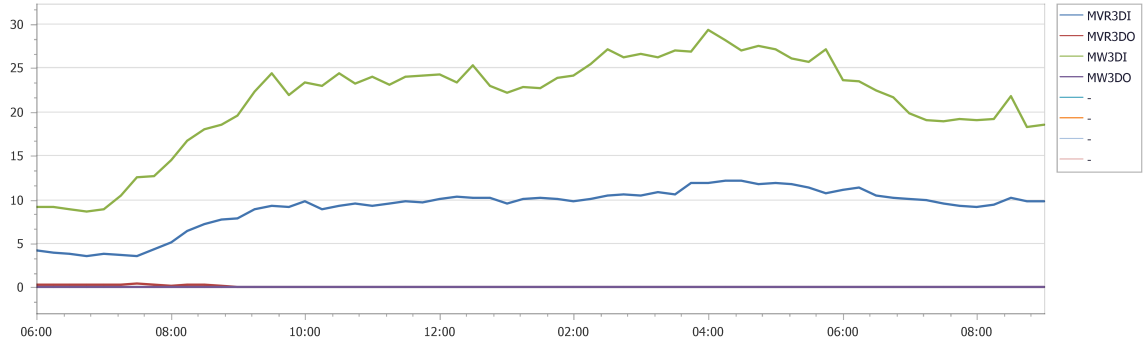
Start Date	7/16/2014 6:00:00 AM
End Date	7/16/2014 9:00:00 PM
Metering Point / Group	2270N Metering Point
Time Zone	US/Pacific
UTC Offset	-07:00:00
Time Zone DST	True
Unit Scale	Kilo
Scale	Primary

Device Name	2270N_734
Device ID	2270-N
Terminal ID	2009328389
Firmware ID	SEL-734-R205-V0-Z103103-D20110426
CTR	120
CTRN	120
PTR	1



		Acquisition Rate	900	900	900	900	-	-	-	-
		Channel Function	EOI	EOI	EOI	EOI	-	-	-	-
Status	**Date**	**Time**	**MVR3DI**	**MVR3DO**	**MW3DI**	**MW3DO**	-	-	-	-
1	7/16/2014	6:00:00 AM	4.1952	0.3288	9.1536	0.00				
1	7/16/2014	6:15:00 AM	3.9408	0.3468	9.1296	0.00				
1	7/16/2014	6:30:00 AM	3.888	0.2748	8.952	0.00				
1	7/16/2014	6:45:00 AM	3.5484	0.3168	8.646	0.00				

SER Report

View SER data from SEL devices in a tabular report. View multiple reports side-by-side for the same time period to correlate events.

SER Report

9/2/2014 11:45:16 AM

Start Date	7/15/2014 12:00:00 AM
End Date	7/23/2014 12:00:00 AM
Metering Point	2270N Metering Point
Time Zone	US/Pacific
UTC Offset	-07:00:00
Time Zone DST	True

Device Name	2270N_734
Device ID	2270-N
Terminal ID	2009328389
Firmware ID	SEL-734-R205-V0-Z103103-D20110426

Date	Time	Element	State
7/17/2014	7:45:30.265 AM	ITIC_SR	Asserted
7/17/2014	7:45:30.29 AM	ITIC_SR	Deasserted
7/22/2014	8:33:39.792 AM	ITIC_SR	Asserted
7/22/2014	8:33:40.792 AM	ITIC_SR	Deasserted

VSSI Reports

VSSI Summary Reports

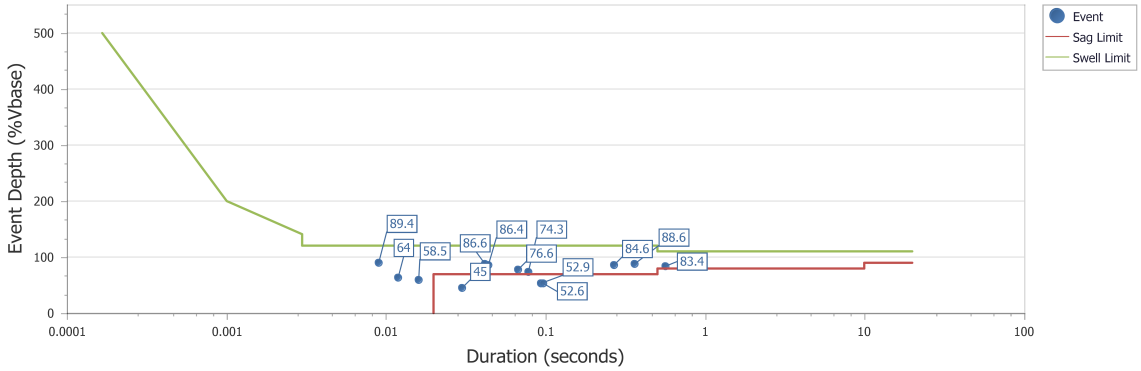
Use the ITI (CBEMA) graph to quickly categorize and identify potentially damaging VSSI events. Quickly assess event conditions with tabular summaries containing drill-down detail graphs and links to details for each event.

VSSI Summary Report

9/2/2014 11:32:15 AM

SCHWEITZER ENGINEERING LABORATORIES

Start Date	7/13/2014 12:00:00 AM	**Device Name**	2270N_734
End Date	7/31/2014 12:00:00 AM	**Device ID**	2270-N
Metering Point	2270N Metering Point	**Terminal ID**	2009328389
Time Zone	US/Pacific	**Firmware ID**	SEL-734-R205-V0-Z103103-D20110426
UTC Offset	-07:00:00		
Time Zone DST	True		



Event Type	Date	Time	Duration	Event Depth	Ph-A Vbase	Va		Ph-B Vbase	Vb		Ph-C Vbase	Vc		ITIC Region	Detail Data	
						Min	Max		Min	Max		Min	Max		Graph	Report
SAG	7/17/2014	7:45:30.005 AM	000:00:00.016	58.5	120.00	58.5	85.3	120.00	97.9	100.2	120.00	98.5	100.1	SR	Show	Create
SAG	7/22/2014	5:34:08.757 PM	000:00:00.078	74.3	120.00	74.3	93.1	120.00	74.8	95.8	120.00	75.8	93.5	SR	Show	Create
SAG	7/22/2014	5:35:29.563 PM	000:00:00.067	76.6	120.00	96.2	99.8	120.00	76.6	91.2	120.00	78.4	93.8	SR	Show	Create
SAG	7/22/2014	6:22:13.78 PM	000:00:00.364	88.6	120.00	88.6	90.1	120.00	95.5	97.3	120.00	93.3	95.0	SR	Show	Create
SAG	7/22/2014	8:20:12.495 PM	000:00:00.042	86.6	120.00	98.7	100.8	120.00	86.6	89.5	120.00	87.1	92.2	SR	Show	Create

VSSI Detail Report

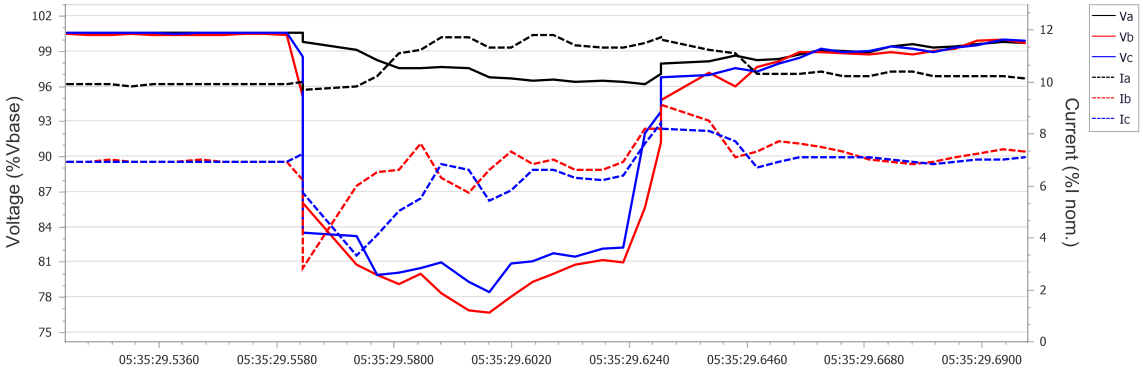
Perform in-depth VSSI event analysis with detailed VSSI (variable sampling rate records) data in graphical and tabular format. Identify points of interest with as much as 4 ms accuracy.

VSSI Detail Report

9/2/2014 11:39:04 AM

SCHWEITZER ENGINEERING LABORATORIES

Start Date	7/22/2014 5:35:29 PM	**Device Name**	2270N_734
End Date	7/22/2014 5:35:29 PM	**Device ID**	2270-N
Metering Point	2270N Metering Point	**Terminal ID**	2009328389
Time Zone	US/Pacific	**Firmware ID**	SEL-734-R205-V0-Z103103-D20110426
UTC Offset	-07:00:00		
Time Zone DST	True		



Date	Time	Current (%I nom.)					Va		Vb		Vc		Phases			Status
		a	b	c	g	n	Vbase	%Vbase	Vbase	%Vbase	Vbase	%Vbase	A	B	C	
7/22/2014	5:35:29.519 PM	9.9	6.9	6.9	5.9	0.0	120.00	100.6	120.00	100.5	120.00	100.6	.	.	.	P
7/22/2014	5:35:29.523 PM	9.9	6.9	6.9	5.9	0.0	120.00	100.6	120.00	100.4	120.00	100.6	.	.	.	P
7/22/2014	5:35:29.527 PM	9.9	7.0	6.9	5.9	0.0	120.00	100.5	120.00	100.4	120.00	100.6	.	.	.	P
7/22/2014	5:35:29.531 PM	9.8	6.9	6.9	5.9	0.0	120.00	100.5	120.00	100.5	120.00	100.6	.	.	.	P
7/22/2014	5:35:29.535 PM	9.9	6.9	6.9	5.9	0.0	120.00	100.6	120.00	100.4	120.00	100.6	.	.	.	P

Energy Balance Report

Select one or two pairs of energy channels (in/out, delivered/received) from two metering points, devices, or metering point groups. Then, with the help of the Energy Balance Report, calculate unmetered usage and identify losses.

For example, select watts delivered and received as the first channel pair. Select VARs delivered and received as the second channel pair. The report calculates the net of the channel pairs to determine the net watts and net VARs for each metering point, device, or group. The report then calculates the difference in quantities between the two metering points, devices, or groups and displays watts delivered, watts received, net watts, VARs delivered, VARs received, and net VARs.

Energy Balance Report

9/2/2014 1:09:48 PM

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Start Date	7/15/2014 12:00:00 AM	**Unit Scale**	Kilo
End Date	7/22/2014 12:00:00 AM	**Scale**	Primary
Metering Point / Group 1	Zocholl Flex Meter	**Metering Point / Group 2**	Zocholl Mains Metering Point
Device Name 1	Zocholl_F_735	**Device Name 2**	Zocholl_M_735
Time Zone	US/Pacific	**Time Zone**	US/Pacific
UTC Offset	-07:00:00	**UTC Offset**	-07:00:00
Time Zone DST	True	**Time Zone DST**	True
Device ID	ZOCHOLL FLEX SEL-735	**Device ID**	ZOCHOLL MAIN SEL-735
Terminal ID	SEL-735	**Terminal ID**	SEL-735
Firmware ID	SEL-735-R107-V0-Z004003-D20130701	**Firmware ID**	SEL-735-R107-V0-Z004003-D20130701
CTR	120	**CTR**	500
CTRN	120	**CTRN**	500
PTR	1	**PTR**	1

Zocholl Flex Meter					
QH3_DEL	**QH3_REC**	**Net**	**WH3_DEL**	**WH3_REC**	**Net**
493.09316	0.00	493.09316	994.712712	0.00	994.712712
Zocholl Mains Metering Point					
QH3_DEL	**QH3_REC**	**Net**	**WH3_DEL**	**WH3_REC**	**Net**
11,499.688026	0.00	11,499.688026	24,493.974796	0.00	24,493.974796
Zocholl Flex Meter - Zocholl Mains Metering Point					
-11,006.5949	**0.00**	**-11,006.594866**	**-23,499.262085**	**0.00**	**-23,499.262085**

WAGES Report

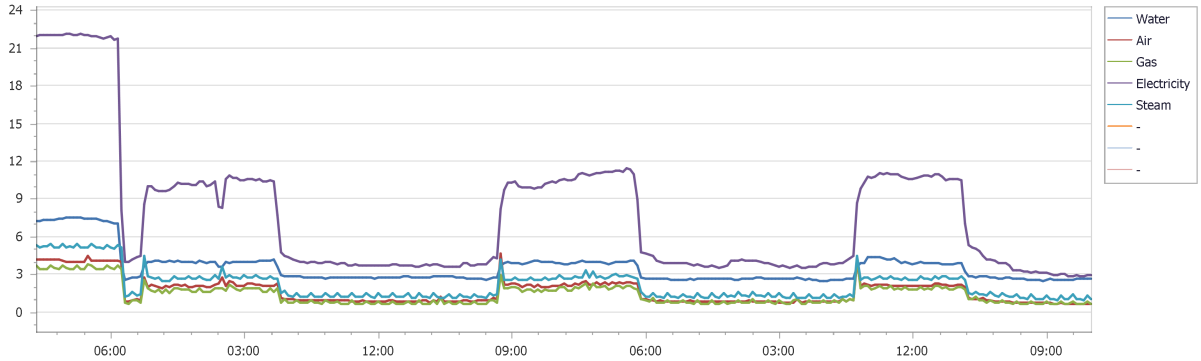
Connect pulse outputs from meters and transducers to an SEL meter and view WAGES consumption or generation in one report, or add any other metered quantity to the report. Scale pulse weight values by a configurable scale factor to convert these values to engineering units for the report.

WAGES Report

9/3/2014 3:15:18 PM

SCHWEITZER ENGINEERING LABORATORIES

Start Date	7/16/2014 12:00:00 AM	**Device Name**	Zocholl_F_735
End Date	7/19/2014 12:00:00 AM	**Device ID**	ZOCHOLL FLEX SEL-735
Metering Point / Group	Zocholl Flex Meter	**Terminal ID**	SEL-735
Time Zone	US/Pacific	**Firmware ID**	SEL-735-R107-V0-Z004003-D20130701
UTC Offset	-07:00:00	**CTR**	120
Time Zone DST	True	**CTRN**	120
Unit Scale	Kilo	**PTR**	1
Scale	Primary		



Scale Factor		**0.89**	**120**	**100**	**0.8**	**140**	-	-	-
Acquisition Rate		**900**	**900**	**900**	**900**	**900**	-	-	-
Channel Function		**EOI**	**MAX**	**MAX**	**EOI**	**MAX**	-	-	-
Status	**Date**	**Time**	**Water**	**Air**	**Gas**	**Electricity**	**Steam**	-	-	-
	7/16/2014	1:00:00 AM	7.184207	4.15118	3.67943	21.896912	5.350806			
	7/16/2014	1:15:00 AM	7.212711	4.151638	3.443518	21.9817	5.168327			
	7/16/2014	1:30:00 AM	7.318073	4.155999	3.453801	22.074071	5.199934			
	7/16/2014	1:45:00 AM	7.351238	4.167122	3.442705	22.01601	5.196913			
	7/16/2014	2:00:00 AM	7.323563	4.151105	3.680265	22.028732	5.382185			

Software Requirements

- Windows XP, Windows 7, Windows Server 2008–2019, Windows 8/8.1, or Windows 10.
- Microsoft .NET 4.0 framework
- Administrative privileges for installation
- SEL Compass® Software
- ACSELERATOR QuickSet® SEL-5030 Software
- ACSELERATOR TEAM® SEL-5045 Software

The server or computer running ACSELERATOR Database and on which there are data that TEAM collects must be accessible via the network from the computer running Meter Reports.

Hardware Requirements

- PC with dual-core 1.5 GHz or faster processor
- 2 GB or more RAM
- 200 MB of available disk space
- 1024 x 768 or higher resolution display

Notes

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