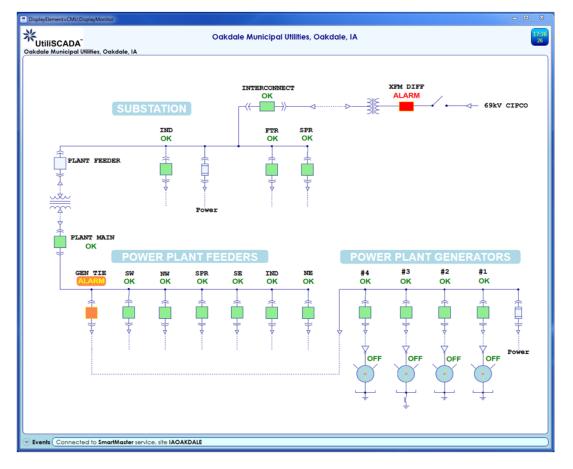


Electric, Gas and Water Utilities



# Engineered & Designed In The USA All Customer Support From The USA

Telescada, Incorporated 222 Bolivar Street, Canton MA 02021 USA www.Telescada.com







Built on 30 years of operational experience, UtiliSCADA<sup>™</sup> is our third-generation distribution management control system. UtiliSCADA<sup>™</sup> adopts more industry standards, is Smart Grid ready, has enhanced scalability and modularity delivering an improved user experience while incorporating the latest software tools and technologies.

Designed Around Industry Standards UtiliSCADA™ Database Engine Microsoft® SQL 2022 Server DBMS

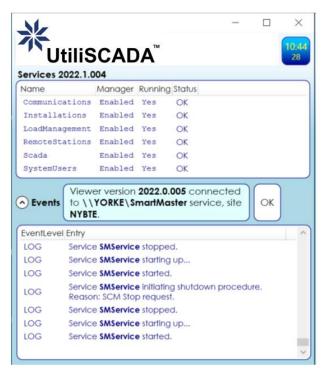
Communications Protocols DNP 3.0, Modbus, MultiSpeak, Vestas RCS

#### North American Electric Reliability Corporation Critical Infrastructure Protection Compliance

Using industry standard encryption methods, asymmetric keys and digital certificates to encrypt stored data and communications. SFTP. CIP-002, CIP-003, CIP-004, CIP-005, CIP-006, CIP-007, CIP-008, CIP-009, CIP-010, CIP-13

# UtiliSCADA™ Platforms, Tools, Languages & Technologies

SQL Server 2022, Report Server 2022 Windows® 10, CLR, .Net 4.5 VS 2016, SSMS 2016, Report Builder C#, XML, XAML, SQL, T-SQL ADO.NET, WPF, Service Broker



UtiliSCADA			5
Parameter	Value	0	Save + Exi
Name	Brownville		Cancel
Туре	GenericDNP30		Visibility
Manager	Enabled		
Diognostics	Disabled		Print
RTS	No		Print Scrn.
PTS	Disabled		
ResponseTO	5000		
MRTO	686		
NRA	2		
RSGroup	SESubstation		
Togs			
InputManager	SESubstation		
OutputManager	SESubstation		
LSER	LogAndAlarm		
Address	5		
CIOPP	1		
CIIPP	0		
CI2PP	0		
CI3PP	0		
Cti0Code	Hex81		
Cfl1Code	Hex41		
LocalControlReporting	LogAndAlarm		
DeviceTroubleReporting	LogAndAlarm		
DeviceRestartReporting	Log		
FunctionNotSupportedReporting	LogAndAlarm	4	

#### DATABASE VIEWER SCREEN

## **Enhanced System Modularity**

UtiliSCADA<sup>™</sup> uses a multi-tier design so components can be on the same machine, or different machines. Components can be stand-alone, with no user interface, or remotely administered. Business logic is implemented as a Windows® service with no UI required to run the services. UtiliSCADA<sup>™</sup> can also run as a standalone data concentrator for specialty applications.

## Enhanced System Scalability

UtiliSCADA<sup>™</sup> can scale from 1 to 10,000 user accounts, with millions of end points with more efficient data processing.

UtiliSCADA<sup>™</sup> provides multi-channel, asynchronous data scanning with multi-channel asynchronous control code dispatching.

500 Petabyte (500,000 TB) database capacity.

MAIN VIEWER SCREEN





			Events	- All Services
Name	Number	EntryDT	EventLevel	Entry
AckAlarms Alarms	9227	2013-09-23 16:21:54 760	LOG	Request for manual operation of remote station Brownville control Brownville_SCADARecloserControl received from user PowerPlant.
AlEvents	9228	2013-09-23 16:21:54 776	LOG	Remote station Brownville will be polled in 5 seconds
LastMonth	9229	2013-09-23 16:21:56 226	LOG	Control point Brownville_SCADARecloserControl switched to RESET state by PowerPlant.
LasfYear	9230	2013-09-23 16:21:59 783	LOG	Request for manual poll of remote station Brownville received from user PowerPlant.
LatestMinutes	9231	2013-09-23 16:22:02 154	ALARMACK	Status point Brownville_RecloserStatus in RESET state.
ThisMonth	9232	2013-09-23 16:31:18 233	ALARMACK	Remote station WestLoop not responding.
ThisWeek	9233	2013-09-23 16:32:16 437	LOG	Remote station WestLoop resumed responding.
ThisYear	9234	2013-09-24 01:00:00 014	LOG	Database backup manager initiated database backup cycle.
Today Yesterday	9235	2013-09-24 01:12:36 288	LOG	Database backup manager reporting database backup cycle completed successfully.
	9236	2013-09-24 01:12:36 288	LOG	Database backup manager scheduled database backup cycle for 2013-09-25 00:00:00.
	9237	2013-09-24 08:32:09 679	LOG	Request for manual operation of remote station Brownville control Brownville_SCADARecloserControl received from user PowerPlant.
	9238	2013-09-24 08:32:09 679	LOG	Remote station Brownville will be polled in 5 seconds
	9239	2013-09-24 08:32:11 114	LOG	Control point Brownville_SCADARecloserControl switched to LOCKOUT state by PowerPlant.
	9240	2013-09-24 08:32:14 702	LOG	Request for manual poll of remote station Brownville received from user PowerPlant.
	9241	2013-09-24 08:32:17 229	ALARMACK	Status point Brownville_RecloserStatus in LOCKOUT state.
	9242	2013-09-24 10:43:13 637	ALARMACK	Remote station STATIONPOWER1 not responding.
	9243	2013-09-24 10:44:14 368	LOG	Remote station STATIONPOWER1 resumed responding.
	9244	2013-09-24 16:14:35 638	LOG	Data point filter manager LastMonth parameter Analysis was modified from HourtyAverages to NONE by PowerPlant.
	9245	2013-09-24 16:20:04 908	LOG	Data point filter manager Daily parameter StartDT was modified from 2013-08-20 12:00:00 000 to 2013-08-10 00:00:00 000 by PowerPlant.
	9246	2013-09-24 16:20:04 923	LOG	Data point filter manager Daily parameter EndDT was modified from 2013-08-21 15:04:00 000 to 2013-08-11 00:04:00 000 by PowerPlant.

#### EVENTS VIEWER SCREEN

#### **Better User Customization**

The UtiliSCADA<sup>™</sup> Viewer is an agnostic user interface. There is no business logic in the Viewer. Users can select standard table views, or create custom views of existing tables.

Users can create custom data tables with the built-in report server and report builder. UtiliSCADA<sup>™</sup> has multi-media capabilities with resizable screens using vector graphics.

Users simply log on to Windows®, and start the UtiliSCADA<sup>™</sup> Viewer. UtiliSCADA<sup>™</sup> Viewer, DBMS & Windows® Security is integrated into all components. User credentials are determined from the User's Windows® account. Automated, or manual software updates. Better backup, archiving and user notification services via the UtiliSCADA<sup>™</sup> DBMS.

*				1/0	O Poir	nts					
UtiliSC	CADA		I/O Points								
Name	Manager 5	tank a	Nome	Manager	Shok u	ValueDT		Value	Units	Comments	 
BTC	Enabled		Atkinson VoltagePhA	Enabled		2022-06-15	15140149			OK	
Substations			Atkinson VoltagePhB	Enabled		2022-06-15				OK	
Dwitches	Enabled		Atkinson VoltagePhC	Enabled		2022-06-15				OF	
			Butte VoltagePhA	Enabled	OK	2022-06-15	15:40:50	125.3	v	OK	
ilters			Butte_VoltagePhB	Enabled		2022-06-15	15:40:50	124.6	v	OK	
Name		_	Butte_VoltagePhC	Enabled	OK	2022-06-15	15:40:50	124.6	v	OK	
A11			Chambers_VoltageFhA	Enabled	OK	2022-06-15	15:40:50	124.8	v	OK	
Currents			Chambers_Voltage#hB	Enabled	OK	2022-06-15	15:40:50	125.4	v	OK	
PowerFactor			Chambers_VoltageFhC	Enabled	OK	2022-06-15	15:40:50	125.3	v	OK	
Reactive			Cleveland_VoltagePhA	Enabled	OK	2022-06-15	15:40:50	125.3	v	OK	
Status			ClevelandVoltageFhB	Enabled	OK	2022-06-15	15:40:50	125.9	v	OK	
Voltages			ClevelandVoltageFhC	Enabled	OK	2022-06-15	15:40:50	125.3	v	OK	
Walver			EmmetVoltageFhA	Enabled	OK	2022-06-15	15:40:50	124.3	v	OK	
			EnmetVoltagePhB	Enabled	OK	2022-06-15	15:40:50	124.6	v	OK	
			EmmetVoltagePhC	Enabled	OK	2022-06-15	15:40:50	124.0	v	OK	
			InmanVoltagePhA	Enabled	OK	2022-06-15	15:40:50	125.5	v	OK	
			InmanVoltagePhB	Enabled	OK	2022-06-15	15:40:50	125.2	v	OK	
			InmanVoltagePhC	Enabled	OK	2022-06-15	15:40:50	125.1	Ψ.	OK	
			Lynch_VoltageFhA			2022-06-15				OK.	
			Lynch_VoltagePhB			2022-06-15				OK,	
			Lynch_VoltagefhC	Enabled	AL ARM	2022-06-15				OK.	
			NEAtkinson_VoltageFhA			2022-06-15				OK	
			NEAtkinson_VoltagePhB	Enabled		2022-06-15				OK	
			NEAtkinsonVoltagePhC	Enabled	OK	2022-04-15				OK	
			NEOneill_Voltage#%A	gnabled		2022-06-15				OK	
			NEOneill_VoltagePhB	Enabled		2022-06-15				OK	
			NEOneII1VoltagePhC	Enabled		2022-06-15				OK	
			CNeill_VoltagePtA	Enabled		2022-06-15				OK	
			CNeill_VoltagePhB	Enabled		2022-06-15				OK	
			ONeillVoltageFhC	Enabled		2022-06-15				OK	
			Spencer_VoltageFhA	Enabled		2022-06-15				OK	
			SpencerVoltageFhB	Enabled		2022-06-15				OK	
			SpencerVoltageFhC	Enabled		2022-06-15				OK	
			Stuart_VoltagePhA	Enabled		2022-06-15				OK	
			Stuart_VoltageFhB	Enabled		2022-06-15				OK	
			StuartVoltagePhC	Enabled		2022-06-15				OK	
			fwanLakeVoltage#hA	Enabled		2022-06-15	15:40:51			OK	
			SwanLake VoltagePhB	Enabled							

#### INPUT/OUTPUT VIEWER SCREEN

**Enhanced Communications** UtiliSCADA™ can communicate with devices on one communications channel, or as many channels as needed simultaneously. Popular communications protocols are supported. Multiple protocols can run over the same channel. Communications can go over Ethernet or serial connections, or via any other medium when appropriate transceivers are used (e.g. radio, fiber optic cables, cellular modems, etc.).

<b>.</b>					Serv	ice=Communications – 🗖	×
	DA <sup>™</sup>				Co	ommunications	0:09 56
Application Laye	r Clients					Binding Layer Clients	
Name	Manage	r Runnin	g Status	TXM	RXM	Name Manager Running Connected Status TXB R	RXB
_Communications	Enabled	i Yes	OK	0	0	_Communications Enabled Yes Yes OK 1843	0
_Installations	Enabled	i Yes	OK	0	0	_Installations Enabled Yes Yes OK 534	0
_LoadManagement	Enabled	i Yes	OK	0	0	LoadManagement Enabled Yes Yes OK 15030	0
_RemoteStations	Enabled	i Yes	OK	0	0	_RemoteStations Enabled Yes Yes OK 541	0
_Scada	Enabled	i Yes	OK	0	0	_Scada Enabled Yes Yes OK 478	0
_SMService	Enabled	i Yes	OK	107	0	_SMService Enabled Yes Yes OK 29702	0
_SystemUsers	Enabled	i Yes	OK	0	0	_SystemUsers Enabled Yes Yes OK 0	0
Application Laye	r Servers					Binding Layer Servers	
Name	Manager	Running	Status 1	TXM F	MXS	Name Manager Running Connected Status TXB RXB	
Communications	Enabled	Yes	OK	0	3	Communications Enabled Yes Yes OK 0 411	
Installations	Enabled	Yes	OK	0	0	Installations Enabled Yes Yes OK 0 3440	
LoadManagement	Enabled	Yes	OK	0	32	LoadManagement Enabled Yes Yes OK 0 16374	
RemoteStations	Enabled	Yes	OK	0	0	RemoteStations Enabled Yes Yes OK 0 22504	
Scada	Enabled	Yes	OK	0	0	Scada Enabled Yes Yes OK 0 3372	
SMService	Enabled	Yes	OK	0	298	SMService Enabled Yes Yes OK 0 214582	
SystemUsers	Enabled	Yes	OK	0	2	SystemUsers Enabled Yes Yes OK 0 1138	
Events Conn	ected to			mart	Maste	er service, site NYBTE.	

#### COMMUNICATIONS VIEWER SCREEN



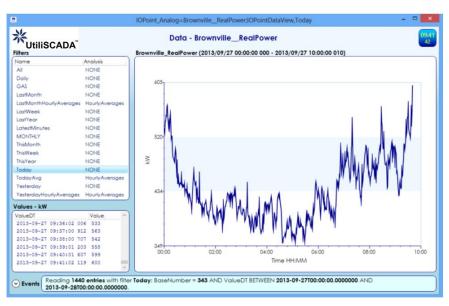


# **Enhanced Reporting and Notification**

A special server component is dedicated to management, definition, generation, and dispatching of reports. Management can be done through the UtiliSCADA<sup>™</sup> user interface, or via a web browser. Users can define custom reports with little or no programming. Reports can contain tables, various kinds of charts, plots, and gauges. And can be rendered in html, pdf, Excel, Word, etc.

Reports can be generated manually, or on a scheduled basis. Reports can be dispatched to selected lists of users via electronic mail on a one time, or subscription basis. In the latter case reports are sent out to mailing lists periodically as needed. Security can be defined so users can access only reports that they are entitled to see.

	CADA	N	L	oad	Mano	gemen	t			
ervice										
Name		•	•			LMWaiver				
LoadManage	ment Er	abled	Yes (	DK	Primary	Enabled	11:0	00:00	22:0	0:00
rograms					Load G	roups				
Name	Mana	ager Ru	nning Stat	US	Name	Manager	Statu	s MngSt	artTOD	MngEndTOD
PeakShaver	Enak	led Ye	s OK	_	MoWeF	r Enabled	OK	10:00	:00	22:00:00
AfterPeakL	SR Enak	led Ye	s OK		TuThS	a Enabled	ОК	10:00	:00	22:00:00
EveningLSR	Enak	led Ye	s OK		Sunda	y Enabled	OK	10:00	:00	12:00:00
Demand Inp LMDIName M Blair E Pender E Pierce E	lonoger Inabled Inabled	OK OK	OK OK	2013 2013	-12-27 -12-27	12:24:00 12:24:00 12:24:00	349 332	Comme OK OK OK	nts	
oad Points										
LMLPName	Manag	er LMLP	Status AO	г	Status	ValueDT		N 1	alue (	Comments
AlbersJ		d OK			0.0	2013-12-2			OFF	
ReppertS		-				0001-01-0			DN	
StratmanE				00:00		0001-01-0				MANUAL MODE
TimmermanF	Enable	d OK	0:	00:00	OK	0001-01-0	1 00:	00:00	DIN	
Events										



#### DATA HISTOGRAM SCREEN

# **Enhanced Multitiered Architecture**

UtiliSCADA<sup>™</sup> provides application specific components for automated,

- SCADA
- Load Management /Load Control
- Automated Meter Reading / AMI
- Capacitor Control / Volt/Var Management
- DNP Integrated Data Concentrator

# LOAD MANAGEMENT APPLICATION SCREEN

The SCADA Solution Purposely Built For Municipal and Cooperative Electric, Gas and Water Utilities



www.Telescada.com