OPUS software



Specialists in Telemetry & SCADA System Software

OPUS PC6-SQL Telemetry/SCADA System

OPUS SOFTWARE presents PC6-SQL, the sixth generation of

Telemetry/SCADA (Supervisory Control and Data Acquisition) software. This system is without doubt the most capable and technically advanced SCADA software package available today; combining the very latest realtime multi-tasking software with an integrated SQL based Information Management System and sophisticated Web Interface.

Standard System Software

The **PC6-SQL** software is the culmination of 20 years of continued development and refinement. This sixth generation product is designed for use on Microsoft Windows 7 based systems.

The proprietary package is state-ofthe-art, having been extensively field proven over the years to provide an extremely capable and flexible system, one that is able to meet your current needs and able to grow to accommodate your future requirements.

PC6-SQL is ideally suited to all sizes of system ranging from small standalone HMIs to large distributed multi-user telemetry schemes.



PC6-SQL Information Management System

Data Acquisition

The system is capable of simultaneously communicating over 32 full duplex data acquisition channels using a variety of protocol emulators. Various asynchronous links (bearer circuits) may be utilised including local and wide area networks.

Measured Parameter	Today	Day-1	Day-2	Day-3	Day-4	Day-5	Day-6	Day-7
No.of Connected Calls	44107	0	0	0	0	0	0	0
No.ol Failed Calls	29	0	0	0	0	0		0
No.of Incoming Calls	0	0	0	0	0	0	0	0
Hin Dialup Time (secs)	1	0	0	0	0	0		0
Max Dialup Time (secs)	1	0	0	0	0	0	0	0
Ave Dislup Time (secs)	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hin Connect Time (secs)	0	0	0	0	0	0	0	0
Max Connect Time (secs)	185	0	0	0	0	0		0
Ave Connect Time (secs)	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tot Connect Time (nins)	2276.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Link Performance (%)	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
No.of Messages Txd	459419	0	0	0	0	0	0	0
No. of Failed Replics	144	0	0	0	0	0		0
No. of Incoming Replics	203260	0	0	0	0	0	0	0
Min Reply Time (secs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Reply Time (secs)	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ave Reply Time [socs]	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Comms Performance (%)	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 . COARSE SCREEN SECT	TION		ALLING					

Communications Performance Monitoring

Telemetry Database

At the heart of the **PC6-SQL** system is a fixed-schema relational database that has been specifically designed for high-speed real-time telemetry access. This database is independent of the SQL IMS and hence provides for both efficient and fault tolerant operation of the Telemetry/SCADA system. In addition, exported telemetry data can be accessed via the SQL database tables using a variety of Microsoft compatible products (MS Access, MS Excel etc.).

	General Parameters			Scaling/Parameters	
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Auto Control Scholt [1]	Units U.S	64		Min Scaled Value 0	
Dutput Only Paint	Alarm Mag VOID	64		Hex Scaled Value 30	
	Area Of Interest 0			No. of Decirval Places 3	
Dupkate 🛅					
Duplicate Station	0 Feet 0				
Control Panameters		Aarn Faraneters		Further Action Call	egories
Control Point 12				Puint Faller	
Direct Operate 21	Alarn 3Ho Hiri 🖓	Variable Alarm Limits 🖂	Record Number	N/A Point Palare	
Print Canitrol V Andrew Canitrol V	Alam Out Of Hits 2	191 Alarn Class 6	1915 Alam Linit		
Central Pro 0	Alarm Out Of High [2]	High Alarm Class 6	High Alarm Limit		
	Alam Into Low [2]	Norm Alarm Class 6	Low Alam Linit		
Control Code 0	Alarm Out Of Low 2	Low Alarm Cass 6	Loce Alem Linit		
Control Talenetse 0 %	Alarm Dut Of Lola 12	LoLo Alern Class 6	Alarm Hysteresia		
(In Seconds If Pol Imbited)			Persistence Timeout	1 (Cat 0 = No Further	Action)
WPS Definitions	-	IN OK Care	0		
	200			Reconfigura	-

Point Histories

PC6-SQL maintains a history of the most recent significant changes for each and every telemetry (digital, analogue and totalised) point on the system. A point's recent history can be displayed in graphical or summary form with a simple mouse click on the graphic workstation.

3, Page 50 - General Points - Point History										
0001		COARSE SCREEN SECTIO	N							
0001	6	INCOM FLOW	7.953	L/S						
	6	23 Nov 07 15:12:29	4.298	L/S						
	6	23 Nov 07 15:11:48	4.277	L/S						
	6	23 Nov 07 15:11:07	3.95	L/S						
	6	23 Nov 07 15:10:26	4.212	L/S						
	6	23 Nov 07 15:09:45	4.915	L/S						
	6	23 Nov 07 15:09:04	4.511	L/S						
	6	23 Nov 07 15:08:23	5.094	L/S						
	6	23 Nov 07 15:07:01	5.904	L/S						
	6	23 Nov 07 15:06:20	5.615	L/S						
	6	23 Nov 07 15:05:39	6.57	L/S						
•				F						
_			Data	t Lliotom						

Point History

Point Archiving

The point archive consists of data files recording all locally sampled and remotely acquired periodic point archive data and time-stamped point archive data. All telemetry points on the system can be archived, including pseudo (calculated) points and points imported from the SQL database. All

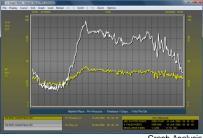
FEATURES

Integrated Information Management System. Support for both Microsoft Access and Sql Server databases. Integrated SQL Interface using standard Microsoft packages. Integrated Web Interface for Intranet and/or Internet browser access. Powerful Advanced Graphic Workstation user interface. Management report generation supporting both text and HTML file generation. Point processing with extensive maths, logic and control functions. Support for 'out of hours' operation including pager alarms, facsimile reports and SMS mobile texting service. Full featured Software Development Kit for the Microsoft .NET Framework environment. Extensive system administration tools, performance monitoring and logs. Remote diagnostics.

> point archive files are backed up automatically daily and monthly by the system providing an unlimited record.

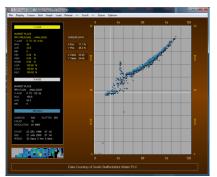
0027	Analogue Local	5	7 Teo	FOUL VOLTS Undefined	1	400	10 Dec 2007 09:14:00	10 Dec 2007 17:13:00	×	
0038	Analogue	5	8 Tan	FOUL AMPS Undefined	1	490	10 Dec 2007 09:14:00	10 Dec 2007 17:13:00	×	
0029	Analogue	5	9 Tep	STORM VOLTS Undefined	1	400	10 Dec 2007 09:14:00	10 Dec 2007 17:13:00	×	
0040	Asologue Local		10 Tag	STORM ANPS Undefined	1	490	10 Dec 2007 09:14:00			
0041	Local	5	11 Tag	GEN VOLTS Undefined	1	480	10 Dec 2007 09:14:00			
0042	Analogue Local	5	12 Tag	GEN AMPS Undefined	1	400	10 Dec 2007 09:14:00	10 Dec 2007 17:13:00	х	
0043	Analogue	5	13 Tap	GEN POWER Undefined	1	400	10 Dec 2007 09:14:00			
0044	Local	5	14 Tep	GEN FREQUENCY Undefined	1	400	10 Dec 2007 09:14:00			
0045	Analogue	8	5 Ten	MAIN DEPTH Undefined	1	12000	02 Dec 2007 09:14:00	10 Dec 2007 17:13:00	ХT	
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0047	Analogue		7 Tau	QHAIN FLOW Undefined	1	12000	02 Dec 2007 09 14:00	10 Dec 2007 17:13:00	хт	
0061	Analogae	1	1 Tan	INCOM FLOW Cas Incom Flow	1	12000	27 Nov 2007 01:58:00	05 Dec 2007 09:57:00	×	

The Archives Directory lists details of all archives, any that haven't been updated for more than 24 hours are displayed in yellow. Exported archive data can be accessed via the SQL Archive database.



Graph Analysis

Both live and historic data may be examined on the system and displayed in a variety of formats. The Archive Data Manager utility enables you to edit, compress, extract, resize, merge and convert archive data files into text files or spreadsheet formats.



Dual Parameter Graph Analysis

Event Archiving

The event archive consists of data files recording all local and remotely acquired time-stamped events, such as point alarms, alarm acceptance, control actions, user login etc. This extensive archive is backed up automatically daily and monthly by the system providing an unlimited record of all recordable events and alarms on the system. In addition, exported event data can be accessed via the SQL Events database.

25 Nov 07 14:19:49		6	Void	0010	0027	4	ALARM STATUS	DISABLED	
25 Nov 07 14:19:49		- G	Void	0010	0002	8	CONTROL SUPPLY	FAILED	
25 Nov 07 14:19:46		G	Void	0009	0012	5	RADIO LINK	FAILED	
25 Nov 07 14:19:46	Ok	G	Void	0009	0010	9	PENSTOCK 1	OPEN	
25 Nov 07 14:19:37		1	Void	0007	0017	6	DART LEVEL	7.94	н
25 Nov 07 14:19:35		G	Void	0005	0014	7	GEN FREQUENCY	38.51	H.
25 Nov 07 14:19:35		G	Void	0005	0011	7	GEN VOLTS	38.2	v
25 Nov 07 14:19:35		6	Void	0005	0010	7	STORM AMPS	18.17	A
25 Nov 07 14:19:35		6	Void	0005	0009	7	STORM VOLTS	376.29	v
25 Nov 07 14:19:35		6	Void	0005	0006	7	FINE AMPS	0.05	Α
25 Nov 07 14:19:35		6	Void	0005	0004	7	COARSE AMPS	1.09	Α
25 Nov 07 14:19:35		6	Void	0005	0001	7	MAINS VOLTS	329.18	v
25 Nov 07 14:19:34		G	Void	0005		3	GEN ACB 15	CLOSED	
25 Nov 07 14:19:34		G	Void	0005	0028		GEN ACB 14	TRIPPED	
25 Nov 07 14:19:34		6	Void	0005	0013		COARSE ACB 7	CLOSED	
25 Nov 07 14:19:34		6	Void	0005	0012		COARSE ACB 6	TRIPPED	
25 Nov 07 14:19:31		6	Void	0084			SUMP LEVEL	7.315	н
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25 Nov 07 14:19:30		6	Void	0004	0012		INLET PK7	TRIPPED	
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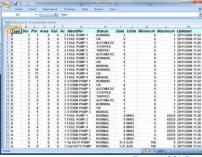
SQL Database

The SQL database tables form the heart of an extensive Information Management System. These database tables are maintained in real-time by the **PC6-SQL** export software. Import tables are used to provide a conduit for privileged SQL and Web users to submit requests (controls, set points etc.) and import new or modified archive data back into the system. The system supports both Microsoft Access and/or Microsoft Sql Server databases and provides access for both Web browser users and any SQL based Microsoft compatible package (MS Access, MS Excel etc.).

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	D 0001 0007 COMPSE SCREEN SECTION	COMPSE SCREEN 3 CSS COARSE SCREEN 3 REINING		D 0001 0002
	D 0001 0010 COARSE SCREEN SECTION	PENSTOCK 1	CSS PENSIOCK LOPEN	D 0001 0010
	D 0001.0014 COARSE SCREEN SECTION	OUTLET PK2	CSS OUTLET PK2 OPEN	D.0001.0014
	D.0001.0018 COARSE SCREEN SECTION	INLET PK3	CSS INLET PK3 OPEN	D.0001.0018
	D.0001.0022 COARSE SCREEN SECTION	OUTLET PK4	CSS OUTLET PK4 OPEN	D.0001.0022
31	D 0001.0026 COARSE SCREEN SECTION	INLET PKS	CSS INLET PKS OPEN	D 0001 0026
2	D.0001.0030 COARSE SCREEN SECTION	OUTLET PNS	CSS OUTLET PK6 OPEN	D.0001.0030
- 21	D.0001.0034 COARSE SCREEN SECTION	WIER PK	CSS WIER PK OPEN	D.0001.0034
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	D.0002.0007 FOUL PUMP SECTION	FOUL PUMP 3	FPS FOUL PUMP 3 RUNNING	D 0002 0007
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Card	gured Point Identifier			10.0.0.0

SQL Point Archive

The SQL Archive database records all exported point archive and timestamped point archive data. Every archive sample is recorded in the SQL Archive along with its time-stamp (to one second accuracy). This data forms part of an unrestricted telemetry point archive on the system.



Exported SQL Data

SQL Event Archive

The SQL Event database records all exported system, alarm and control related event data. Every exportable event is recorded in the appropriate SQL database table along with its time-stamp (to one second accuracy). This data forms part of an unrestricted event archive on the system.

SQL Access

The SQL database tables can be accessed by all SQL based Microsoft compatible packages (MS Access, MS Excel etc.). Various proprietary data analysis and presentation packages are also available. The supplied Software Development Kit (SDK) provides support for SQL access and can be used to develop bespoke user applications in any one of the five MS .NET Framework languages, including Visual Basic, Visual C++ and Visual C#.

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	2	FLOW	HIGH-HIGH	97.9	L/S	15/11/2006 15:07						
	3	FLOW FROM BURTON	NORMAL	66.2	L/S	08/01/2007 10:23						
	4	FLOW STATUS	ON	0		08/01/2007 10:20						
	5	FLOW TO BURTON	NORMAL	83.6	L/S	08/01/2007 10:23						
	6	FOUL FLOW	NORMAL	2.986	L/S	08/01/2007 10:22						
	7	INCOM FLOW	HIGH-HIGH	9.015	L/S	08/01/2007 10:23						
	8	INTEG FLOW	NORMAL	2.75	ML	08/01/2007 10:22						
	9	INTEG FLOW	NORMAL	2.75	ML	08/01/2007 10:22						
	10	INTEG FLOW	NORMAL	2.75	ML	08/01/2007 10:22						
	11	INTEG FLOW	NORMAL	3.82	ML	08/01/2007 10:23						
	12	OUTFALL FLOW	NORMAL	2.986	L/S	08/01/2007 10:22						
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MS Excel SQL Access

Web Interface

The supplied web applications provide a user friendly, powerful and intuitive web interface to the SQL IMS via either your corporate Intranet or the worldwide Internet.

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Station Names	'LEVEL AND	RAINFALL DATA*		Browse
Identifiers	"ALARM STA	TUS"		Browse
Tag References				Browse
External References				Browse
Current Status	"DISABLED"			Browse
Engineering Units				Browse
Table Size	15 R	ows (1 to 999)		
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		Content		
Select DEFAULT	Columns	5	elect ALL Colum	ns
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The web interface provides interactive access to all SQL databases using standard web browsers. Privileged users can monitor and control the Telemetry/SCADA system using PCs, PDAs and other small screen devices.



Advanced Graphic Workstations

The workstation software provides a full-featured graphic interface to the **PC6-SQL** system via various forms of asynchronous communications link, including local and wide area networks.

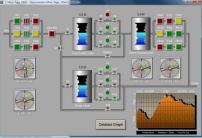


Workstation Mimic Page

PC6-SQL supports a powerful Console Operating System (COS) which is used by the workstations to query the Master station's relational database and affect control over the SCADA system.



The workstation is ideally suited to all forms of operator access, providing a high-performance interface for the display of both real-time text and graphic information, including the display and analysis of archive data, real-time trace data, mimic pages, map pages, configuration and performance data etc.



Workstation Mimic Page

Areas of Interest An operator's domain can be restricted to certain areas of interest by assigning unique area codes to the configured stations and/or points.

Controls

Digital and analogue controls may be performed by a privileged operator via either summary displays or mimic pages. The operating privilege level for performing controls is configured within the workstation, an operator must be logged into an account with this privilege level or higher in order to execute controls.

Alarm Display and Management

The workstation displays the highest priority alarm in a dedicated window area and can be configured to vocally annunciate alarms. Numerous summary commands are provided to query the system and display alarm data, optional search restrictions can be used to filter the resulting real-time summary data.

Concert Operation and Messaging

Multiple workstation displays can be controlled via a single keyboard. A message exchange facility is provided between operators and separate **PC6-SQL** sites.

System Security

System security for workstation and web access is afforded using privileged user accounts accessible by password entry.

Out of Hours Operation

The Alarm Paging software provides an 'out of hours' alarm dial out facility to send email, fax, or SMS text messages to selected duty officers or offices.

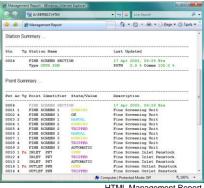
The system also caters for selective paging of duty officers on a station or individual point basis.



Alarm Dial out to Mobile Devices

Management Reports

The Management Report Generator supports free-format report generation for on-demand, batch and event driven reporting. Both text and HTML report formats are supported. All reports are automatically archived to disk and tagged with unique date/time codes. Text reports may optionally be printed, emailed and/or faxed.



HTML Management Report

General Processing

The General Point Processor provides extensive maths, logic and control functions. These functions may invoke other data processing and control applications, or trigger events such as the generation of reports, alarm dial out, paging, faxed messages etc.

General Point Processon		(Sires)
E - de E-		
Curtarits Assex Search	Control GPP Function	ons
Ovenew Ovenew Configuring The Process Form, Origaring The Process Form, Process Formatics Operative An AnnaneticalIndex of GPP Funct Numeric Index of GPP Function Texample GPP Agazabas Government Functions	GPP (e.g. cmdon, cmdoff etc.) station. The 'control' functions d and therefore any number of cor N.B. The 'P_term' is used to ide function is to be performed, in th	400 Brough Is 100, sketty, order inhal content invities within they have fermiors may be used to indice content indices on the Maxies end affect any pseudo sealth calculated within a Process Fernida the functions: can be used to intrinside and segression. 40% the digital analogue or transised parts on which the GPP content is case in the ACOMON FO. ACOMON and ACONTO Factorias indentity a digital control point. In the case of the GPP content or an antiger control point. In the case of the GPP content of an analogue control point.
Control Functions Control Functions Control Functions	Use L. V. K or P_terms where y	to require floating point values as parameters to functions
- 2 index	For example, to copy the value	0.9 to process point number 1.
- 3 CMDOFF-Digital Comma - 3 CMDOFF-Digital Comma - 3 CMDOFF-Digital Comma - 7 CMDOFTOP-Digital Comm		tant (e.g. process constant number 8) with the value 0.9,
21 COPY-Copy The Result (28 HASHCHD-Sutenit A Hail	 configure the process for 	muta as COPY(ICE, P1)
R PROMO-Print A Summar	Mnemonic Syntax	Description
1 PRF CMD-Copy A Burriers 1 REPORT-Print A Manage	RES F400 (DIA/TIPIV_term)	Set a point to the OFF (0) state.
RED-Set A Port To The I RESECRE Reset Proces	SET1 F401 (DIA/TIPIV_term)	Set a point to the ON (1) state.
ELT1-Gat A Point To The	SET2 F402 (DIA/TIPIV_term)	Set a point to the TERH (2) state.
T SPLOAD Analogue Seth	COPY F403 (exp. D(A/T/P/V_term)	Copy the result of explorts P_term or V_term.
TRUN-Detect and Run a	CMODEE F500 (D/P_term)	Digital command OFF
	CMDON F601 (DP_term)	Digital command ON.
	CMOSTOP F582 (D/P_term)	Digital command STOP
	SPL040 F603 (exp. A/P_term)	Analogue Set Point LOAD (send exp to P_term).
	REPORT F600 (exp)	Print a management report (report number = int(exp))
	ERCMD F601 ("credistr")	Print a summary or general toot file.
	PR/CM2 F012 ("cmdstr")	Copy a summary or text file to the log text file C-IPCS LOGILOG74 TXT.
	HASHCMO F603 (dest, con. cosid, "cmdatr")	Submit a hash command ("cmdstr") to the console task (cosid) on either the local system (dest=0, cas=0), a sub-master or remota (dest=1, convestation ro.); or a higher level master (dest=2, convestament no.)
· ·	57.903/0 F900 ("cmdsb")	Execute system command "cindet": The GPP program will be usapended until the system command "cindet" has completed its operation. To prevent excessive delays to the program when a command procedure is called the programmers should use the DETACH command to call secondary procedures and programs to the term.

Point Processing Functions

System Administration

PC6-SQL includes an extensive array of utility software to simplify system administration.

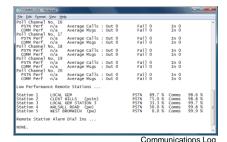
Monitor utilities provide real-time statistical analysis of communications and software performance. Monthly logs are automatically generated and archived for communications performance, system access and reconfiguration. Other facilities include the monitoring of processes, all communication ports

and network links. Remote diagnostics can be undertaken using the workstation's PSTN or network links.



Communications Log

These log files record the monthly overall performance for each data acquisition channel, listing all low performance stations and a record of all alarm calls.



Automated Backup

All key data files are automatically backed up by the system into separate year and month directories, creating a historic log of all configuration, archive and performance data.

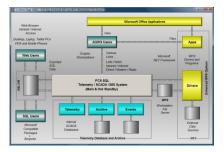
Software Development Kit

A fully featured Software Development Kit is provided for the MS .NET Framework environment, supporting object orientated software development in any one of the five MS .NET languages (C++, C#, J#, Visual Basic and Jscript).

Standard Configurations

The **PC6-SQL** system is ideally suited to all sizes of Telemetry/SCADA system and is designed to operate in both standalone and hot-standby environments.

Additional File Servers, SQL Servers, Web Servers and Workstation Servers can be integrated into the **PC6-SQL** architecture to create a powerful and flexible distributed Telemetry/SCADA system.



Bespoke Software

Opus Software can provide bespoke software solutions for all your Telemetry/SCADA, IMS, SQL database needs, including Web applications and Web services.

For further information contact:

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