



CLIENT APPLICATION FORM

QUALIFICATION OF POTENTIAL TSAT NETWORK

Company			
Contact person			
Address			
Tel, fax and email			
Date			

Please circle anything that applies, and comment to clarify. Use additional sheets if necessary.

Application type:

SCADA / Transactional / Other:	
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What is the purpose of the application:

The new system will be a:

New network / application	Replacement of existing network	Supplement to existing network	Expansion of existing network
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If applicable, why do you wish to change your existing solution?

Reason	Comment
Running costs	
Availability / stability	
Security aspects	
Response time	
Other reasons	

When do you plan to implement the new communication network system?

Next 6 months	Next 6-12 months	Next 12-24 months	Later:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Do you have financing allocated for this project?

Yes	No	Requires budgeting	May need help financing

Financing model (if applicable):

Loan	Lease	Monthly fee	Wants service provider to own/run network

TODAYS SYSTEM

What kind of communication solution do you have today?

Medium	Type
Radio	Repeater / mirror
Lines	Leased / dialled / modem
Satellite	VSAT / Inmarsat / other
Other:	

Speed:

Operating speed		bps
Interface speed (if different)		bps

Total network nodes:

Control centres	Concentrators	End nodes

Please describe or sketch your communication network system, (information centre, how many outlets, geographical area, distances to various sites, etc.) Use a separate paper if necessary:

SYSTEM BEHAVIOR

The following questions are typical for SCADA systems, but may also apply to transactional systems:

Control application (e.g. S.P.I.D.E.R.):	
Protocol used (e.g. MODBUS / RP570):	
RTU type(s):	



Nature of communication traffic is:

Simplex (one way)	Half duplex	Virtually half duplex	Truly full duplex

Is it a centrally polled system?

YES:			
	How often must each RTU be polled!		
	Is it multithreaded (more than one poll outstanding)?		
	What is the polling time-out?		
	Can we change the time-out value?		
	Does the application handle out of sequence packets?		
	Can the RTUs be grouped for simultaneous poll of each group?		
NO:			
	Does the nodes send information at well-defined intervals?		
	Does the nodes send information in response to events at the nodes?		
	Can we influence the time information is sent?		
	What is the time requirement for messages to arrive at the control station?		
	Can nodes take master role and request information from other nodes?		

Will any nodes have battery operation and require power save features?	
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Is a secure link required, or is it handled by the application protocol?	
Do you have any influence on the design of the application or its interfaces?	
Are there any point-to-point continuous flow connections required?	
If yes, at what speed?	

The following questions are typical for Transaction systems but some may apply also to SCADA systems:

What protocols are used?

Asynchronous	X.25	Other:

Asynchronous:			
	PPP/SLIP	proprietary	other:



X.25:				
	PAD	X.25 DTE	Packet Switch at nodes	Packet switch central
	Will the PAD be called up for each transaction?			
	Do any of the nodes have local packet switch or concentrator?			
	Are transactions performed as «short select»?			

How many packets (in out) are sent for each transaction?

Inbound:		Outbound:	
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TRAFFIC ANALYSIS

Please use the following table to describe the traffic introduced by the different packet sizes in the system. If detailed information is unavailable, please give a rough approximation.

	Minimum				Maximum
Size in bytes					
Peak rate pkts/hour					
Average rate pkts/hour					

Will there be any batch transfer functions in the system (such as nightly file transfer)?

Yes:			
	Characteristics	Approx. Size	Rate/Time
	Central distribution to individual nodes		
	Central distribution, broadcast to all nodes		
	Transmission from each node		
	Collection from each node (initiated centrally)		

Please indicate response time requirements:

Standard	Peak period	Accepted worst case