



## OIL Pipeline Control Application using VSATPlus® 3

VSATPlus 3 is PolarSat's 5<sup>th</sup> generation MF-TDMA terminal

- VSATPlus 3 is used for full mesh voice and SCADA data communications between SCADA control center and remotely controlled facilities
- Ease of network connectivity allows for the multiple control centers
- Simple operation allows for training field personnel by system integrator/operator

### Main reasons for choosing VSATPlus 3

<b>Reason</b>	<b>Benefit</b>
Hubless operation for greater reliability	<ul style="list-style-type: none"> <li>• No expensive hub system</li> <li>• Equipment is at customer premise</li> <li>• No landline to shared teleport</li> <li>• Alternative network built into system</li> <li>• No need for a second hub</li> <li>• No single point of failure</li> <li>• Geographic redundancy allows traffic flow even if the gateway goes down</li> </ul>
Full mesh communications is the ultimate in operation flexibility	<ul style="list-style-type: none"> <li>• Allows voice and SCADA in the same network</li> <li>• Allows for multiple regional SCADA control stations that can back each other up</li> </ul>
Ease of Operation allows personnel to focus on running the business and not the network	<ul style="list-style-type: none"> <li>• Same equipment at each site</li> <li>• Simplifies training and spares</li> <li>• Autonomous operation supports unmanned sites</li> </ul>
Network scales from small to large by adding carriers (up to 32) allow future growth	<ul style="list-style-type: none"> <li>• Expansion is simple by just adding carriers</li> <li>• Supports large number of stations</li> </ul>
Bandwidth on demand reduces space segment costs and supports the VSAT network used for multiple purposes	<ul style="list-style-type: none"> <li>• Bandwidth on Demand uses bandwidth only for the remote station being polled and then can be released for polling the next remote station</li> <li>• Can add other IP applications like VOIP without effecting SCADA application traffic</li> <li>• Same network bandwidth can be shared to backup terrestrial links in the case of an outage</li> </ul>

### Uniquely PolarSat offers customers hubless ad hoc full mesh IP networks.

- VSATPlus 3 Multi Frequency TDMA-with Bandwidth on Demand technology is particularly well suited for complex SCADA network applications.



---

Contact Us:

**PolarSat Inc**  
1340 55th  
Lachine, Quebec CANADA  
H8T 3J8  
Tel: 1-514-635-0040  
Fax: 1-514-635-0044  
URL: [www.polarsat.com](http://www.polarsat.com)  
Email: [sales@polarsat.com](mailto:sales@polarsat.com)

