

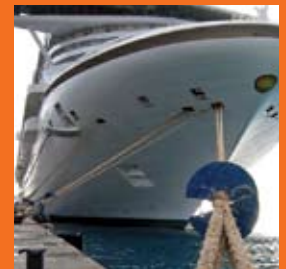
## Secure and cost-effective data replication from SRO Solutions – the Data Experts

SRO understands the needs of customers when it comes to data replication. We have proven experience working with international companies who frequently encounter problems keeping remote sites up-to-date with essential data due to geographic remoteness and poor communication links.

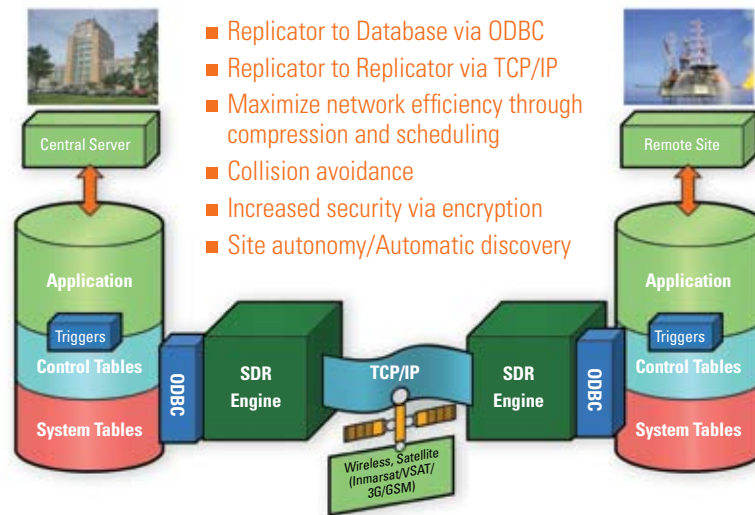
The SRO Data Replicator (SDR) automatically replicates all, or part of your data, making it accessible and fully available across the organisation. Tried and tested with IBM Maximo, yet truly application independent, the SDR will revolutionise the use of all your SQL-based systems, not only data but also file attachments, allowing you to manage your disconnected remote sites and mobile workforce centrally from the office, regardless of latency or bandwidth.

Typical scenarios supported by the SDR include:

- Seaborne transportation
- Offshore oil and gas
- Cruise and ferry
- Military and government
- Specialist vessels
- Mobile and remote workforce



## How it works



Users don't have to be connected to a network to access their data. The SDR enables disconnected remote sites such as regional offices, ships, off-shore installations and remote laptop workers to obtain up to date information at anytime with the same quality of service levels, optimised performance, and lower management costs as those in the corporate office.

Fully optimised for use over low bandwidth, high latency satellite connections such as Inmarsat and VSAT, the SDR also works efficiently with GPRS and 3G connections, offering a more dependable and robust 'session' based replication solution.

### Superior replication of data across your sites

The SDR supports true asynchronous update-everywhere replication and, as opposed to less efficient message-based or synchronous replication, does not rely on e-mail or FTP and does not require all sites to be available at the same time for replication to take place.

All distributed databases are synchronised transparently with the central servers, making deployment and support of your distributed applications as cost effective as Web-based applications but without the network limitations associated with accessing a centralised server and database.



# Proven Technology

Highly scalable and as easy to deploy to two sites as it is to hundreds, the SDR is based on the unique patented technology of Progress Software Corporation (PSC). Working seamlessly and automatically giving you the potential to deal with almost any configuration, using its bi-directional update-everywhere model and fully automated flexible replication scheduler, enabling authorised administrators to manage the entire network from any of your sites.

## Database platforms supported:

- Microsoft SQL Server
- Oracle
- DB2

## Operating Systems supported:

- Windows XP
- Windows Vista
- Windows 7
- Windows Server 2003 and 2008

## Features at a glance

### Bi-directional, 'update-everywhere' replication

- There is no notion of 'master/slave'

### Flexible, scalable replication topologies

- Supports peer-to-peer, hub & spoke and multi-tiered

### Collision Avoidance Method (patented)

- Horizontal (work sets), vertical (fragments)
- Collisions fully logged, along with data

### Dynamic Data Slicing

- Remote sites only receive pertinent data

### Heterogeneous database support

- E.g.: from Oracle to MS SQL Server

### Automatic data compression

- Ensures minimal bandwidth usage

### Secure with data encryption

- Uses industry-standard, government-endorsed Triple-DES, SHA, and ECC security algorithms

### Advanced scheduling

- Optimises network efficiency and security

### Internet standard

- TCP/IP ports 242 and 2584

### Robust session recovery – 'make-on-break'

- If a replication session is interrupted, the next session continues where the previous session stopped

### File / Attachment replication

- Any associated images, files and documents can be replicated at same time as data



## Organisations that use SDR

The SDR is a tried and tested solution that has been implemented by many different types of organisations. SRO Solutions also offer a comprehensive service including: software supply, design & specification, implementation, training and support.

Organisations that are currently benefiting from the SDR include:

### **BG Energy – Trinidad**

BG Energy had been experiencing difficulties with Maximo on one of its offshore production platforms due to high VSAT latency and poor system response times. After implementing the SDR massive improvements were realised offshore and now Maximo is being used with no performance issues.

### **Atlantic Oilfield Services Ltd (AOS)**

AOS operate various offshore drilling rigs and offshore vessels and have offices in Holland and U.A.E. The SDR was selected to enhance Maximo performance across the fleet and provide a replication network between the various disconnected sites and other offices, initially for three rigs and the Amsterdam office but since expanded to 9 remote sites.

### **Chevron Shipping Corp. (CSC)**

After extensive testing, proof of concept and pilot, CSC selected the SDR for its fleet Maximo roll-out for 23 tankers.

### **Petro Vietnam Drilling**

The SDR was initially implemented on 1 drilling rig and an office in Vietnam and, based on this initial success, subsequently expanded to cover a total of 3 rigs and their Ho-Chi-Minh City offices in 2009.

### **GNV (Grande Navi Veloci)**

SRO was contracted via IBM GBS Italia to deliver the SDR for 8 modern ocean going ferries and GNV's office in Genoa, Italy.

### **About SRO**

SRO is an IBM business partner and authorised reseller specialising in Maximo Asset Management, Data Replication, bespoke development, training & support. As well as being able to provide cost effective skills & resources for most ICT related projects, software interface development work, database activities and systems integration projects.

### **Contact details**

To find out more about SRO Solutions and how the SDR can solve your data replication problems, please visit our Web site at:

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