

**Distributing Data with
Smallworld's Mobile Data Server**

Smallworld Replication technology provides symmetric replication between Smallworld databases located at separate geographical sites.

The addition of Spatial Replication extends that functionality by enabling users to select the data for their replica from within a user-defined, geographic area.

Spatial Replication provides the foundation for the Mobile Data Server. This tool enables an organisation to take a geographic subset of their database onto a laptop for use in the field - using the same application as in the office.

The Mobile Data Server reinforces the Smallworld commitment to providing a flexible, distributed environment for spatial analysis and planning throughout the enterprise.

Spatial Replication provides the tools to create a Mobile Data Server based on spatial subsets of your Smallworld database.

This brings to the Smallworld user the benefits of being able to use their fully functional Smallworld application remotely from the master server without having to manage a copy of the entire database.

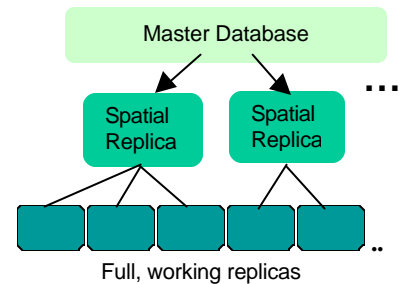
This will be invaluable around an organisation - facilitating regional ownership and management of data, coping with unreliable or over-stretched communications networks, or enabling field workers to maintain and manipulate field data without having to learn a new application.

The area to replicate can be created by using the Smallworld trail or an existing area geometry - for example an administrative boundary or operational area. Reference data and information from related world, e.g. plant internals or associated drawings, can be included in the replica.

Full two-way exchange of updates between the central, master database and the remote, replica databases uses the familiar post and merge operations but requires only a temporary network connection between the master and the remote replica.

Features include:

- Three tier architectural model that takes advantage of the benefits of full replication and extraction to create full working replicas



- Three pass data extraction process to ensure complete and consistent data set
 - Table creation for identified reference data
 - Extract of objects with geometry within or crossing the identified boundary
 - Consistency pass - user specified related objects are included to ensure data consistency

Compatibility

Smallworld Replication is compatible with Smallworld Core 3.3 on UNIX and Windows

