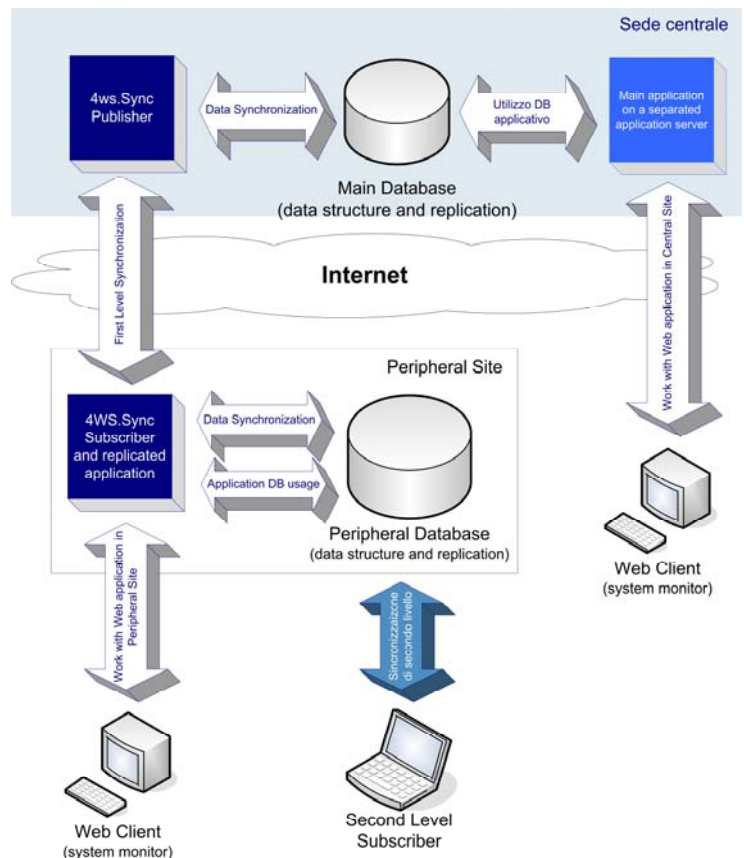


## 4ws.Sync

Keep connected Centre and Periphery



### ► What is it?

It's an **application connecting the centre of an IT system with its periphery in a quick way**, realizing a distributed software architecture. Samples are connections to stores, branches, street shops on the field, affiliated shops, franchisees, technical centres, ...

4ws.Sync allows the automatic scheduling of relevant processes as **data and company software updates**, cutting all manual line-up activities and lowering user operation and related costs.

### ► What does it do?

It's a *N*-level replication system with two synchronization ways :

- ✓ **1<sup>st</sup> way** : node to node
  - ✓ **2<sup>nd</sup> way** : node to leaf
- allowing to reach these **goals**:
- ✓ **Replication of data structures**, in the initial remote installation phase, and after that, during maintenance of data structures;
  - ✓ **Replication and execution of applications** associated to a database for a specific remote user;
  - ✓ **Data replication**, between two homogeneous databases (supporting same data types, or with tables with compatible structures, e.g. same table and field names, compatible data types):
    - 4ws.Sync allows synchronization for both data and data structure between databases from different vendors (Oracle, SQL Server, etc.);
    - each remote installation must be associated to a single user, and replication rules must be set for each table, creating a **filter for data to be copied, based on user's profile and properties**.

4ws.Sync works both ways (centre to periphery and periphery to centre), and includes functions for high quality update distribution tasks, such as:

- ✓ backup of the last versions of applications and databases, before the beginning of a replication;
- ✓ restore of backup versions of applications and databases, in case an error ranked as "severe" occurs during replication;
- ✓ script execution at the end of a replication, for example, to verify a database's content.

### ► Components

- ✓ **Installation DVD**: a single DVD to install the central component, the peripheral multiuser component, the peripheral stand-alone component (for notebooks, tablet PCs, netbook). Supported operating systems: Windows 2000, 2003, XP Pro, Vista Business.
- ✓ **Central Web application** for configuring peripheral sites, creating replication processes, publishing of applications to distribute, maintaining data structures, monitoring replication processes.
- ✓ **Web application at peripheral sites for remote administration**: management of stand-alone systems of peripheral sites (notebooks, etc.), replication rules.
- ✓ **Web application at peripheral sites for assistance and diagnostics**: via SQL shells, a data structure browser and a remote file system shell. It requires a HTTP protocol connection between the peripheral site and the monitoring workstation (i.e. with a static IP address).