Semper

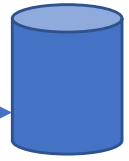
Distribution options

When remote access is required

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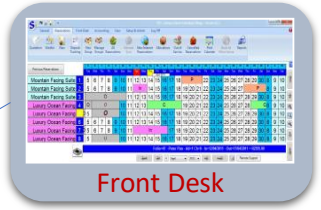
Configuration at your venue

Windows PC or server with MS SQL express or commercial database





Windows PC

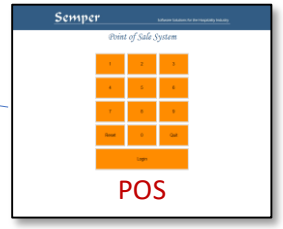


LAN

Windows PC



Windows PC

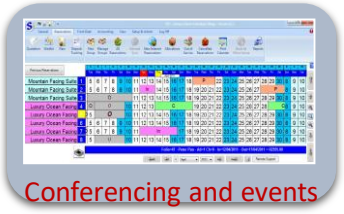


Android or IOS App

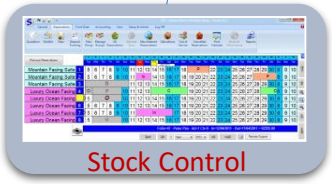


Cell Phone or Tablet

Windows PC



Windows PC

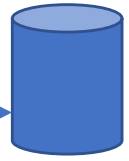


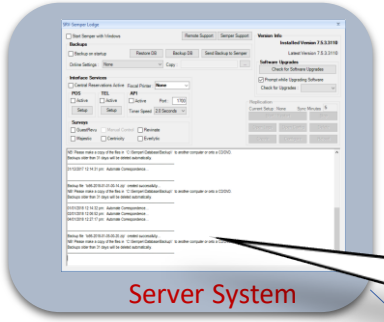


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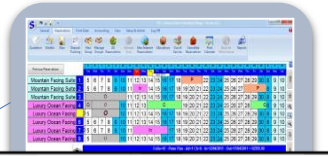
Configuration at your venue

Windows PC or server with MS SQL express or commercial database





Windows PC



Most venues have the following configuration implemented:
A server computer where the Semper Server program executes (The blue S).
The database containing all the venue data also executes on this computer.

LAN

Windows PC

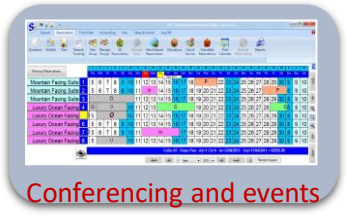




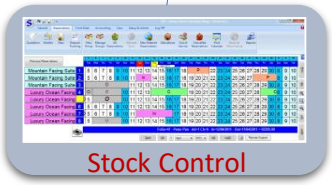


Cell Phone or Tablet

Windows PC



Windows PC





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Configura

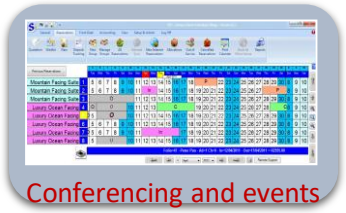
Windows PC or server with MS SQL express or commercial database



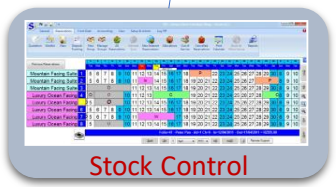
Windows PC

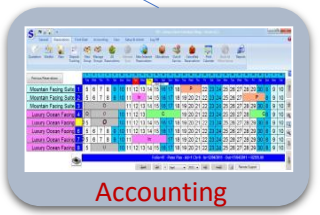


Windows PC



Windows PC







Cell Phone or Tablet

Client computers execute various programs (**Reservations** - red S, **Conferencing** - magenta S or **POS** - light blue S).

The POS App and electronic guest check-in/out are installed on Apple or Android devices such as tablets or cell phones. These get connected using a local wi-fi connection to the server program.

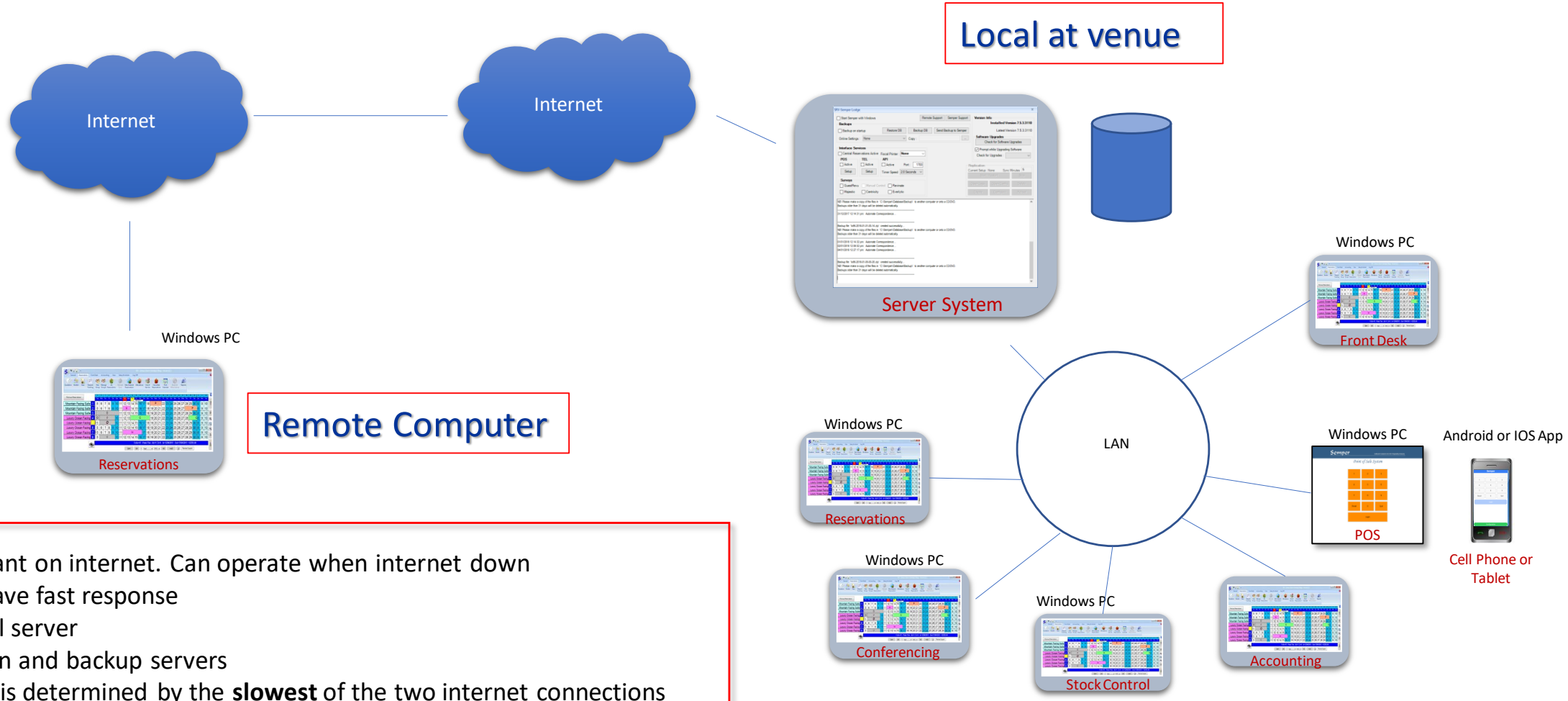
When any client program or App requires information or needs to execute a function they send a command to the server program (on the server computer) which then executes there and returns the result to the client program.

This modern architecture enables you to distribute (separate) the server program (and database) or any of the client programs from each other into different physical locations. The internet is used to communicate between the different components. The need for this is when people have a need to access their system from a remote location or when a venue wishes to implement a cloud solution.
In all cases performance is crucial to ensure a workable solution.

These options are presented in the following slides.

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Option 1 – Remote access to the local server



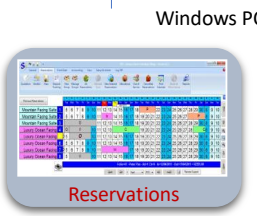
+ Local not reliant on internet. Can operate when internet down
+ Local users have fast response
- Requires local server
- Must maintain and backup servers
- Performance is determined by the **slowest** of the two internet connections

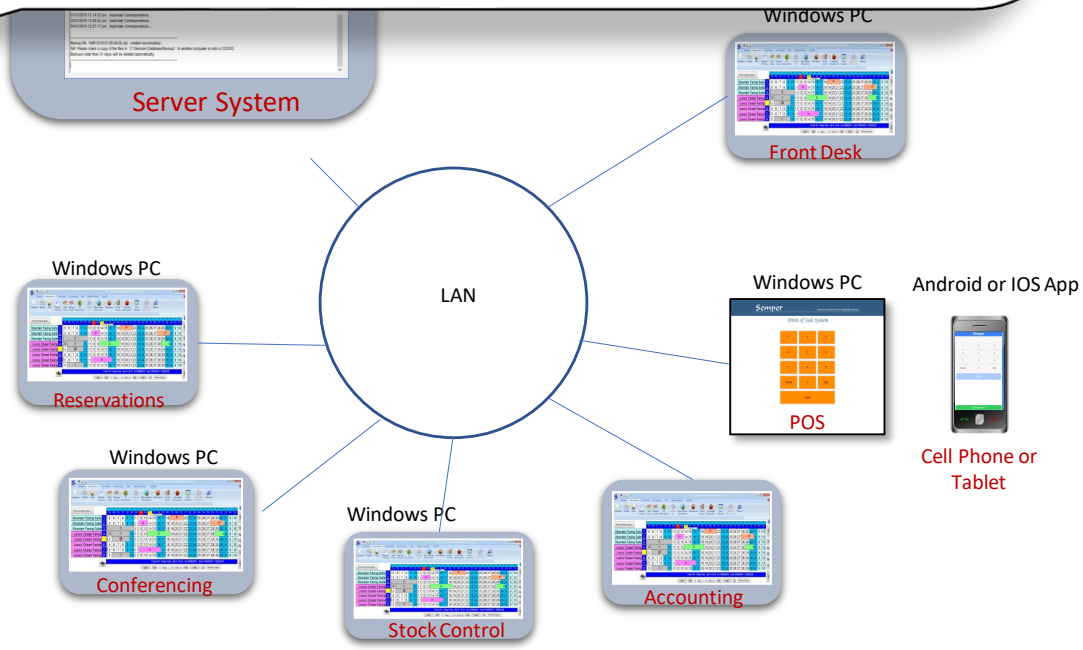
With this option, someone that is not present at the venue wishes to access the server and database located at the venue. A client program (Reservations, Conferencing, accounting etc.) is installed on the remote client computer. This remote client then communicates via the internet to the server program at the venue. (**Remote Access** option).

This option is recommended PROVIDED the internet speed is sufficient to enable a workable environment.
Two internet connections need to be consider. The first is the internet connection used by the venue and the second is the internet connection from the remote computer to the internet.
The **slowest** connection between the two will determine the speed and performance of the program.

We recommend implementing and testing the viability.



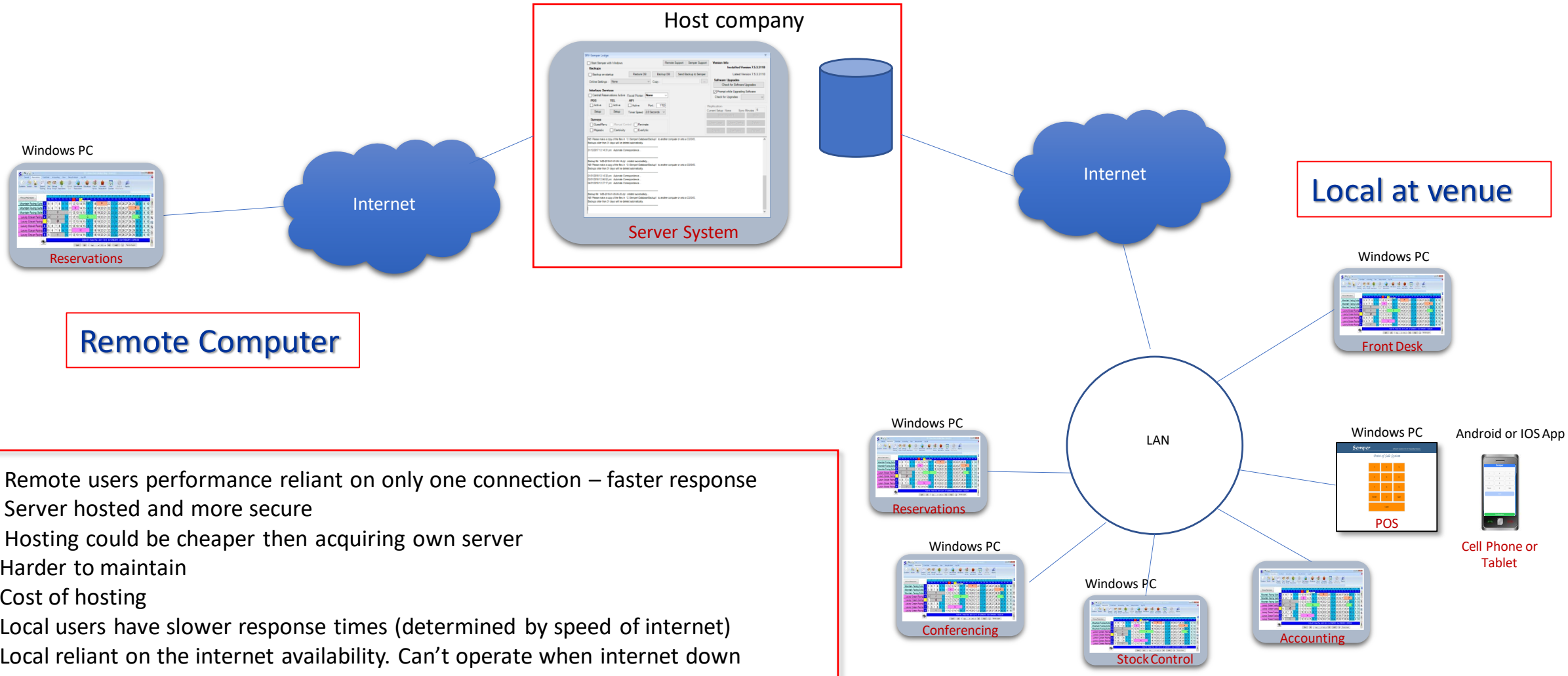




+ Local not reliant on internet. Can operate when internet down
+ Local users have fast response
- Requires server which could be expensive
- Must maintain and backup servers
- Performance is determined by the **slowest** of the two internet connections

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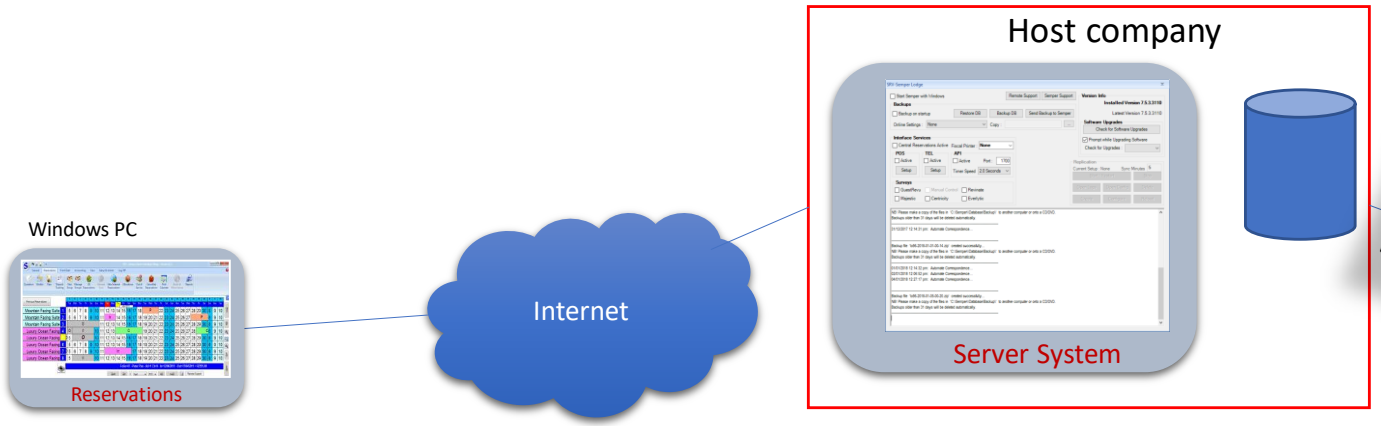
Option 2 – Cloud - Host the server and database



+ Remote users performance reliant on only one connection – faster response
+ Server hosted and more secure
+ Hosting could be cheaper then acquiring own server
- Harder to maintain
- Cost of hosting
- Local users have slower response times (determined by speed of internet)
- Local reliant on the internet availability. Can't operate when internet down
- POS consideration – Too slow and must consider stand alone

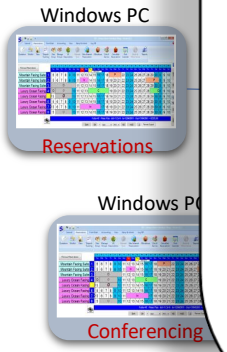
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Option 2 – Cloud - Host the serve



Remote Computer

Local



+ Remote users performance reliant on only one connection – faster response
+ Server hosted and more secure
+ Hosting could be cheaper then acquiring own server
- Harder to maintain
- Cost of hosting vs cost of own server computer
- Local users have slower response times (determined by speed of internet)
- Local reliant on the internet availability. Can't operate when internet down
- POS consideration – Too slow and must consider stand alone

With this option we move the server and database to a hosted remote server environment.
All users access the remote hosted server via the internet.
This option is popular for implementing a **cloud** solution with no server computer at the venue.

Consider the following before implementing:

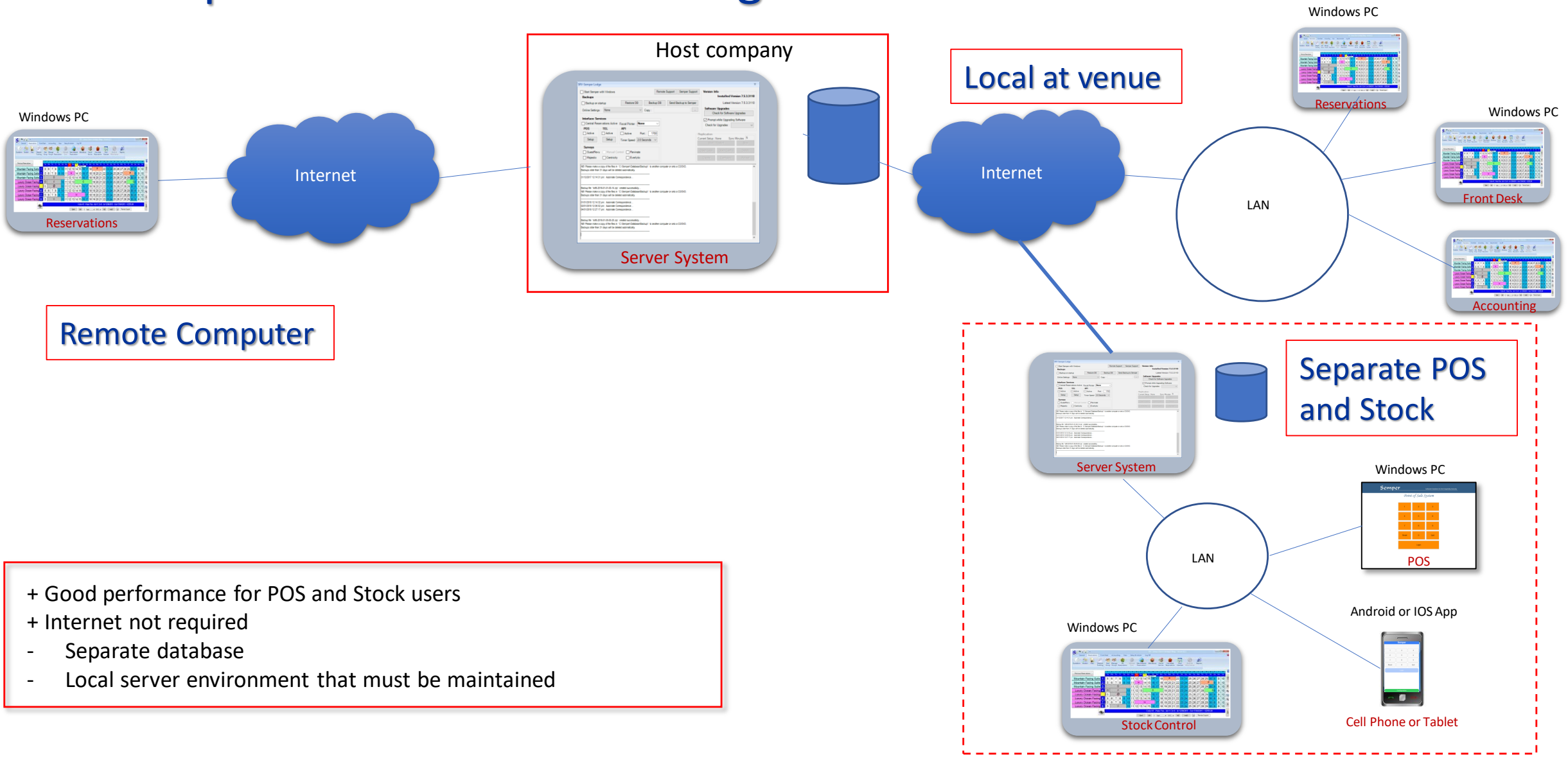
The first requirement is a relatively fast and reliable internet connection at the venue to ensure all users get good performance. Remote users need reasonable internet speed.

Other considerations:

- If the internet is down you will not be able to work on any program.
- If you use a POS and stock system you need quick response from the POS system which requires local access. (see option on next slide)
- If you use door locks or a telephone management systems you my need a local server. Check with the supplier or consider Replication (see later).
- Electronic check-in/out app would require testing to ensure adequate response times from a remote system

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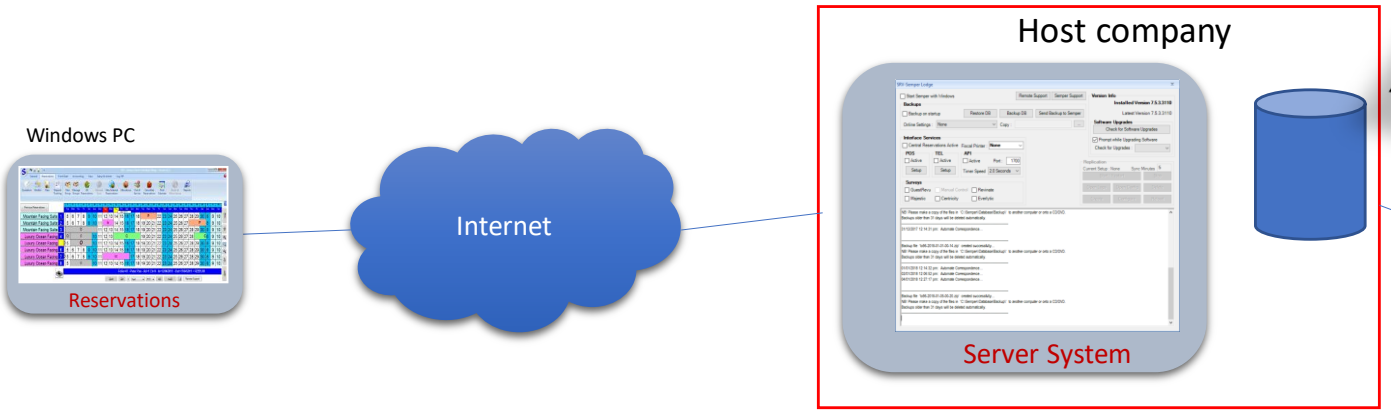
Option 3 – Cloud – Hosting + stand alone POS and Stock



+ Good performance for POS and Stock users
+ Internet not required
- Separate database
- Local server environment that must be maintained

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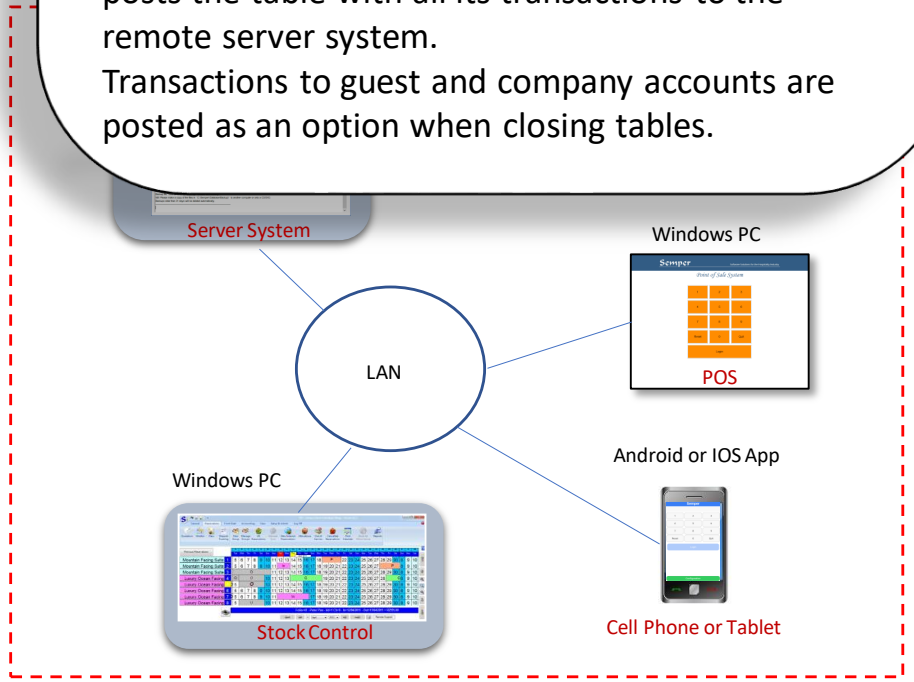
Option 3 – Cloud – Hosting with stand



With this option we utilize the hosted cloud option as we described on the previous slide. In addition a local pos and stock system needs to be implemented on a local server computer.

The local pos and stock system operates independently from the hosted server system with its own server and database. It will communicate to the remote server via the venue internet connection.

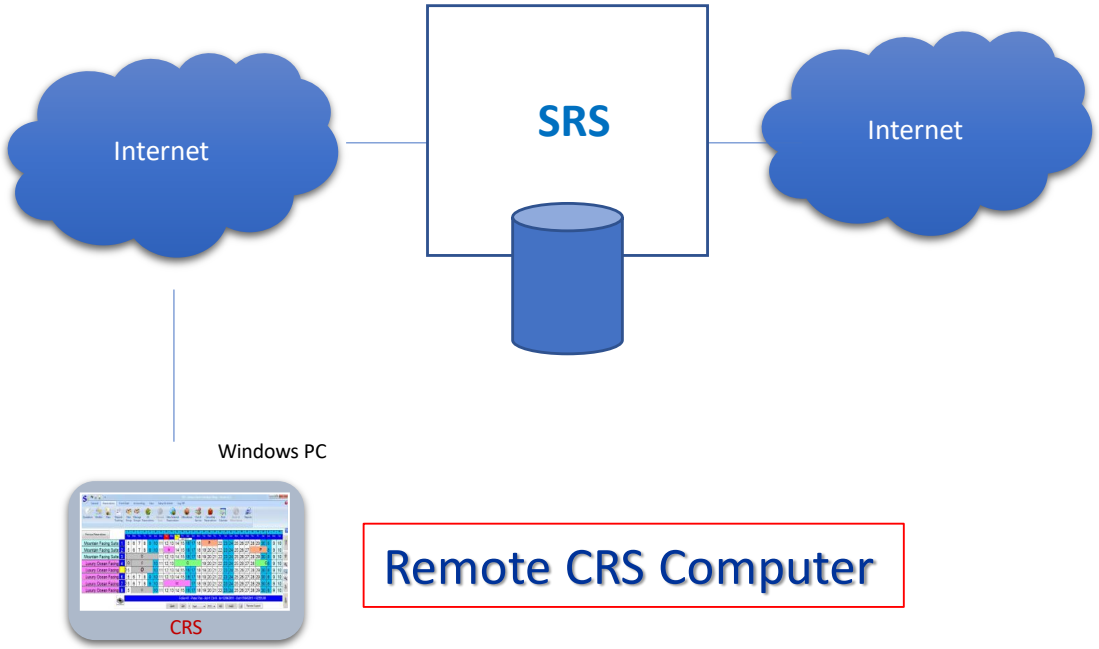
The local pos system can open in-house guest accounts residing on the remote system.
When a table gets closed, the system automatically posts the table with all its transactions to the remote server system.
Transactions to guest and company accounts are posted as an option when closing tables.



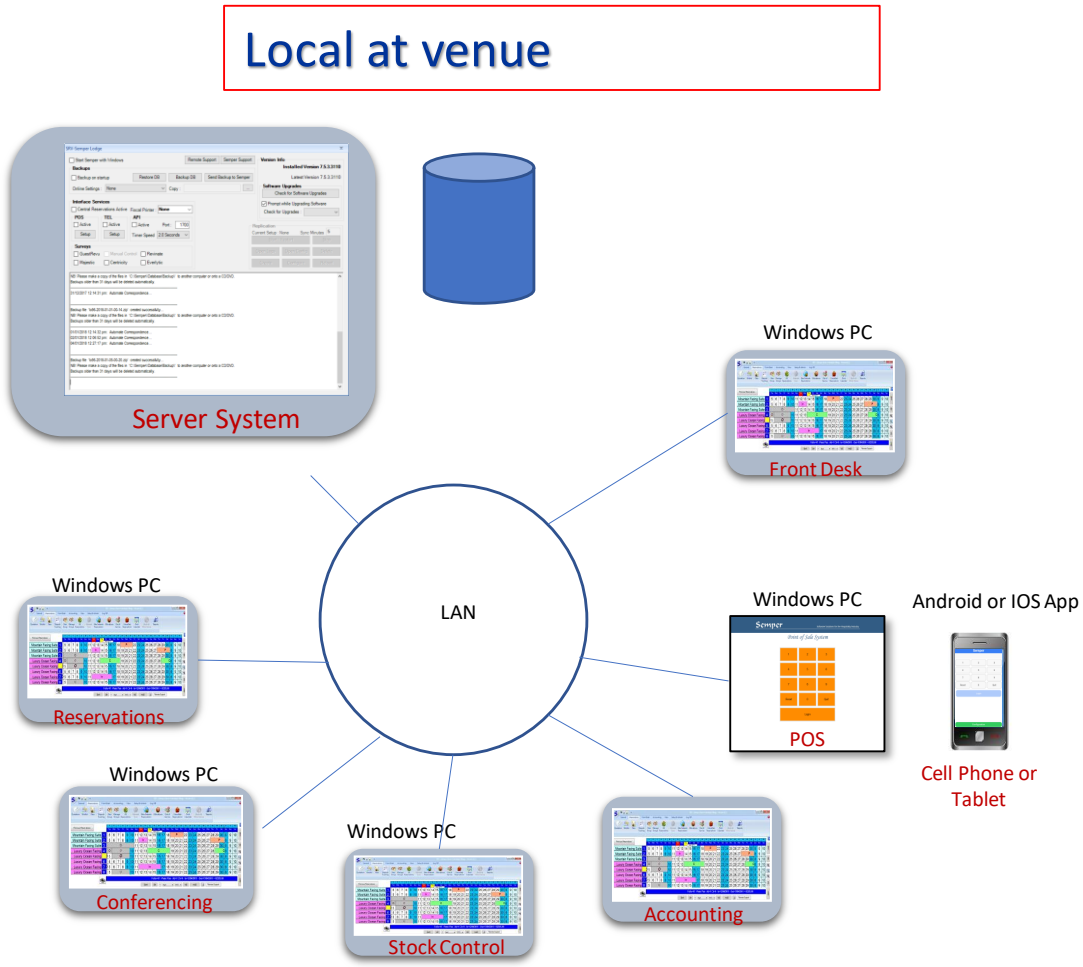
+ Good performance for POS and Stock users
+ Internet not required
- Separate database
- Local server environment that must be maintained

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Option 4 – CRS – (Central Reservations System)



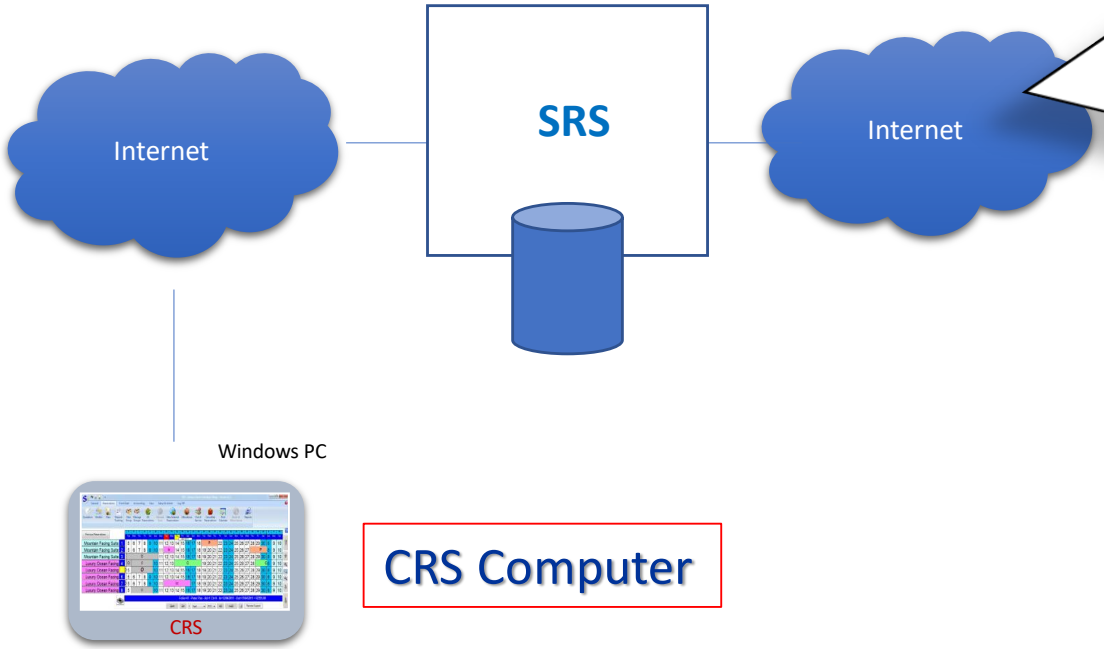
Remote CRS Computer



+ Local not reliant on internet. Can operate when internet down
+ Local users have fast response
+ CRS users can be anywhere
+ Good response
- Limited functionality
- Sync takes time

Semper

Option 4 – CRS



CRS Computer

+ Local not reliant on internet. Can operate when internet down
+ Local users have fast response
+ CRS users can be anywhere
+ Good response
- Limited functionality
- Sync takes time

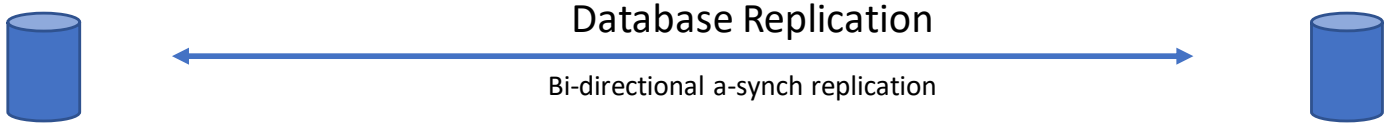
The CRS (Central Reservation System) is a cloud based program that gets installed on one or more remote computers.
The program is designed to manage reservations only. It is used for multiple property reservations or where the reservations office is remotely located.
For a single venue the remote access option (option 1) can be considered if the internet is fast enough. If not this program would also be recommended.

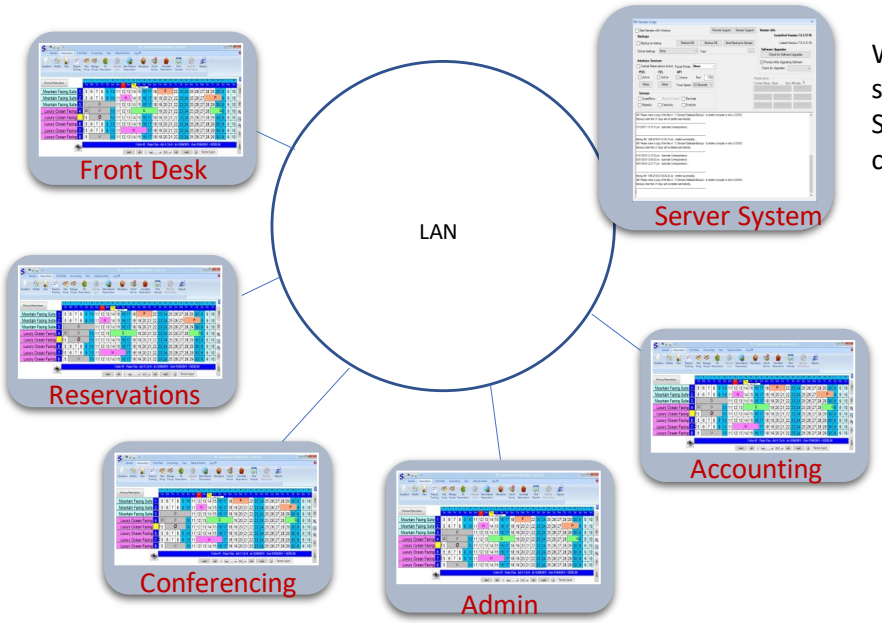
How it works:
Any reservation recorded at the venue gets copied to the Semper Remote System(SRS) where a duplicate set of reservations gets maintained. Any change or additional reservation recorded at the venue gets synchronized to the SRS.

The CRS system interacts only with the SRS to determine availability and record or change reservations.
These reservations get copied to the venue system when the system synchronizes.

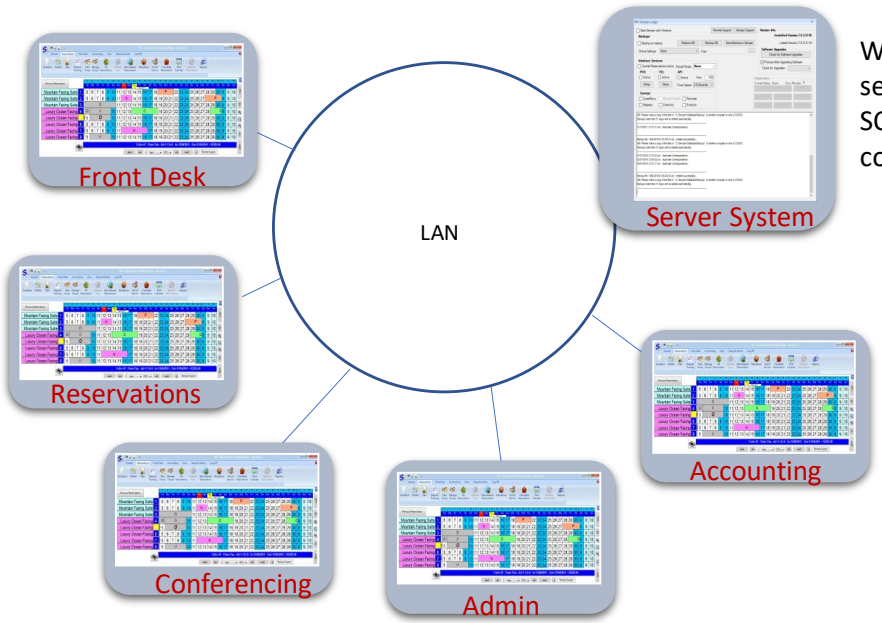
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Option 5 – Replication





Windows PC or server with MS SQL express or commercial

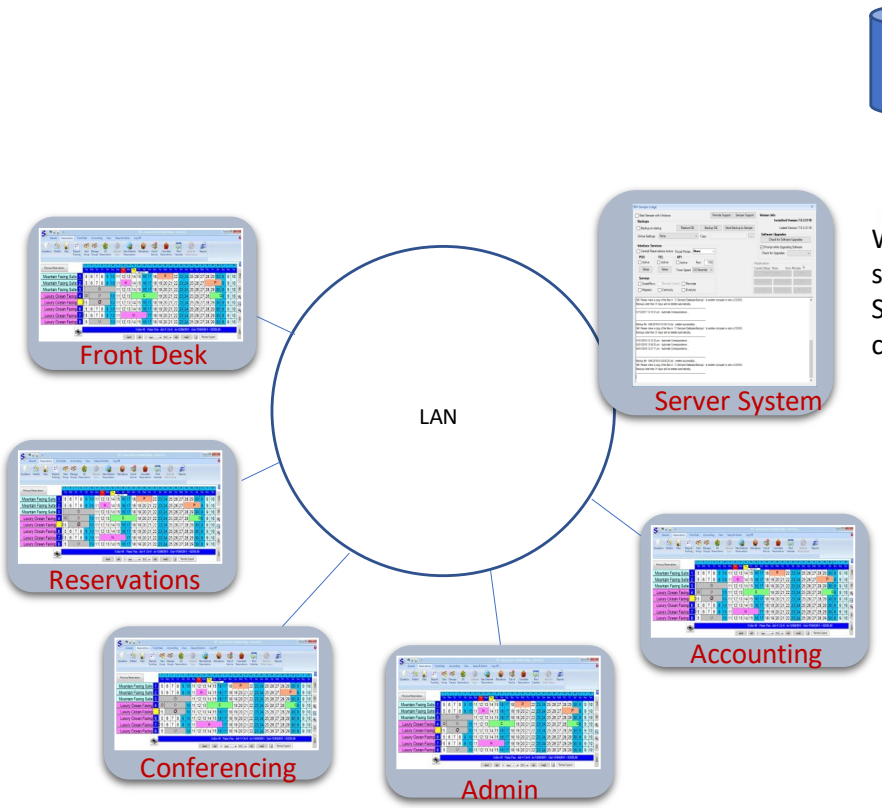


Windows PC or server with MS SQL express or commercial

+ Local users not reliant on internet. Can operate when internet down
+ All users in every location has very fast system
+ Backup of entire system in multiple locations
- Functions can only be performed in turn. Not everyone can do everything at once.
- Additional cost for the Replication system

Semper

Option 5 – Repl



Windows PC or server with MS SQL express or commercial

Replication duplicates the database in up to 3 different locations. The entire database is replicated and any change made to any database gets applied to the others.

It is most often used when venues wish to split operations between different locations. E.g. Reservations in one location, accounting in a second and front office at the venue.

The replication gets done asynchronously in the background based on a timer that performs the function. Should the internet be down changes will accumulate and synchronized when the internet becomes available again.

Considerations

- Each operation gets controlled in different locations and performed in turn. E.g. one location would manage reservations up to the date when the guest checks in. Then control passes to the front office users which keeps control until the guest checks out after which control is passed to the accounting office etc.
- One location can perform multiple operations.
- Internet speed normally does not effect the system.

+ Local users not reliant on internet. Can operate when internet down
+ All users in every location has very fast system
+ Backup of entire system in multiple locations
- Functions can only be performed in turn. Not everyone can do everything at once.
- Additional cost for the Replication system

Semper



Thank You!