SIDEXIS iX Server
Version 4.0

This software is not approved for diagnostic use. For this purpose, please use an approved SIDEXIS system in your environment.

Intended use

SIDEXIS iX can be used for both patient and image data retrieval and to trigger exposure readiness at a remote SIDEXIS PC SIDEXIS installation. SIDEXIS iX is not a medical device and must not be used for diagnosis.

New in this version

3D volume support

In combination with an installed Sidexis V.4.2 and 3D capable iPads, with an installed iX app V.4.0 ff., 3D volume data sets can be read from the Sidexis 4 database. These datasets will be processed and transferred to the mobile device via wireless LAN.

Important:
This new 3D mode will be offered only on supported 64 bit Windows operating systems. The iX server PC must cover the known Sidexis V.4.2 system requirements.

Introduction



The SIDEXIS iX server application is a PC installed connection between SIDEXIS and a remote SIDEXIS iX app running on an Apple iPad.
Users configured on the iPad device have to be configured inside the SIDEXIS iX server in order to establish a connection to SIDEXIS .
Using an established connection new SIDEXIS exposure readiness orders can be triggered right from the mobile device. Resulting image data is transferred to the mobile device automatically.
New image and patient data will be stored in a database inside the SIDEXIS iX app and are available even in situations when the iPad is offline and does not have access to a wireless network.

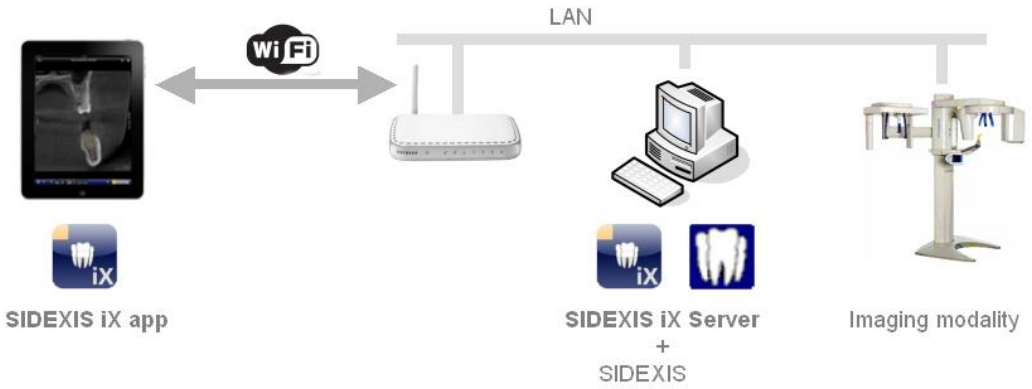
System requirements

- SIDEXIS XG Version 2.52 or higher.
- SIDEXIS 4.1.1 or higher (2d viewing mode only)
- SIDEXIS 4.2 or higher (2D and 3D viewing modes)
- 3D support only on 64 bit operating systems.
- All other system requirements defined by this SIDEXIS version
- Apple iPad with installed SIDEXIS iX app V.4.0.x (full version)
- Access to a local wireless network (WiFi). The SIDEXIS workstation, where the SIDEXIS iX server has to be installed side-by-side, must be a member of this network.

Definitions

SIDEXIS iX App	App running on the iPad
SIDEXIS iX Server	PC side server application running side-by-side to a preinstalled SIDEXIS XG application
SIDEXIS XG	Imaging application with primary database (2D operation only).
SIDEXIS 4	Imaging application with primary database (2D and 3D operation).

Architecture



Installation

In order to install this application on a SIDEXIS iX workstation the setup application SIDEXISiXServerSetup.exe has to be started.

The SIDEXIS iX server application is started right after setup optionally.

Application start



The SIDEXIS iX server application can be started using the Windows start menu. A running instance of the server is accessible using the shown tray icon inside the Windows task bar. Using the right mouse button a popup menu with following options will be opened:

Settings	Opens the SIDEXIS iX settings dialog. All server and iPad user settings can be configured here.
Exit	Terminates the server operations.

Setup new iPad users

In order to setup new iPads and corresponding users following actions have to be taken:

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…inside SIDEXIS iX (at PC side)



1. Create a new user by pressing the + button and entering the new user name and password in the shown input form. Press OK to save the new settings. All required communication settings for SIDEXIS will be applied automatically.

   .
2. Restart SIDEXIS.

…at the iPad



3. Start the SIDEXIS iX app

4. Open settings

5. If the full version update is not yet purchased this has to be done now (using the shown in app purchase function)

6. Right after app upgrade required server data can be entered into the shown settings form:

   iX Server (select from shown list.)
   Username (see 2.)
   Password (see 2.)

7. Switch of simulation.

The mentioned configuration steps have to be repeated for each new iPad on both iPad and PC side.

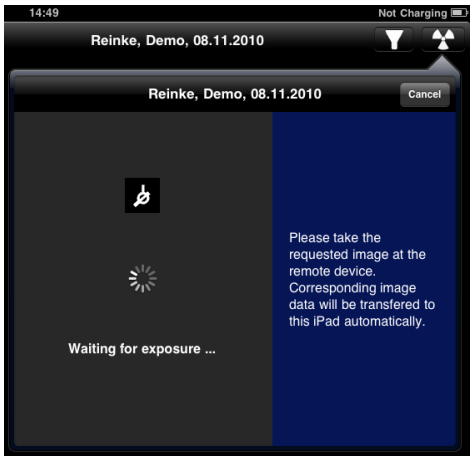
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Exposure readiness

The SIDEXIS iX app offers a remote exposure readiness function.



After selecting the requested image type a corresponding exposure readiness request will be sent to the remote SIDEXIS iX server. The server orders a new exposure readiness from SIDEXIS . The SIDEXIS iX app shows a exposure readiness dialog while waiting for the results.



If more than one modality of the requested type is registered in SIDEXIS a corresponding device selection dialog is shown inside SIDEXIS and has to be prompted manually. If only one device is registered inside SIDEXIS the exposure readiness will be established without any manual user interaction.

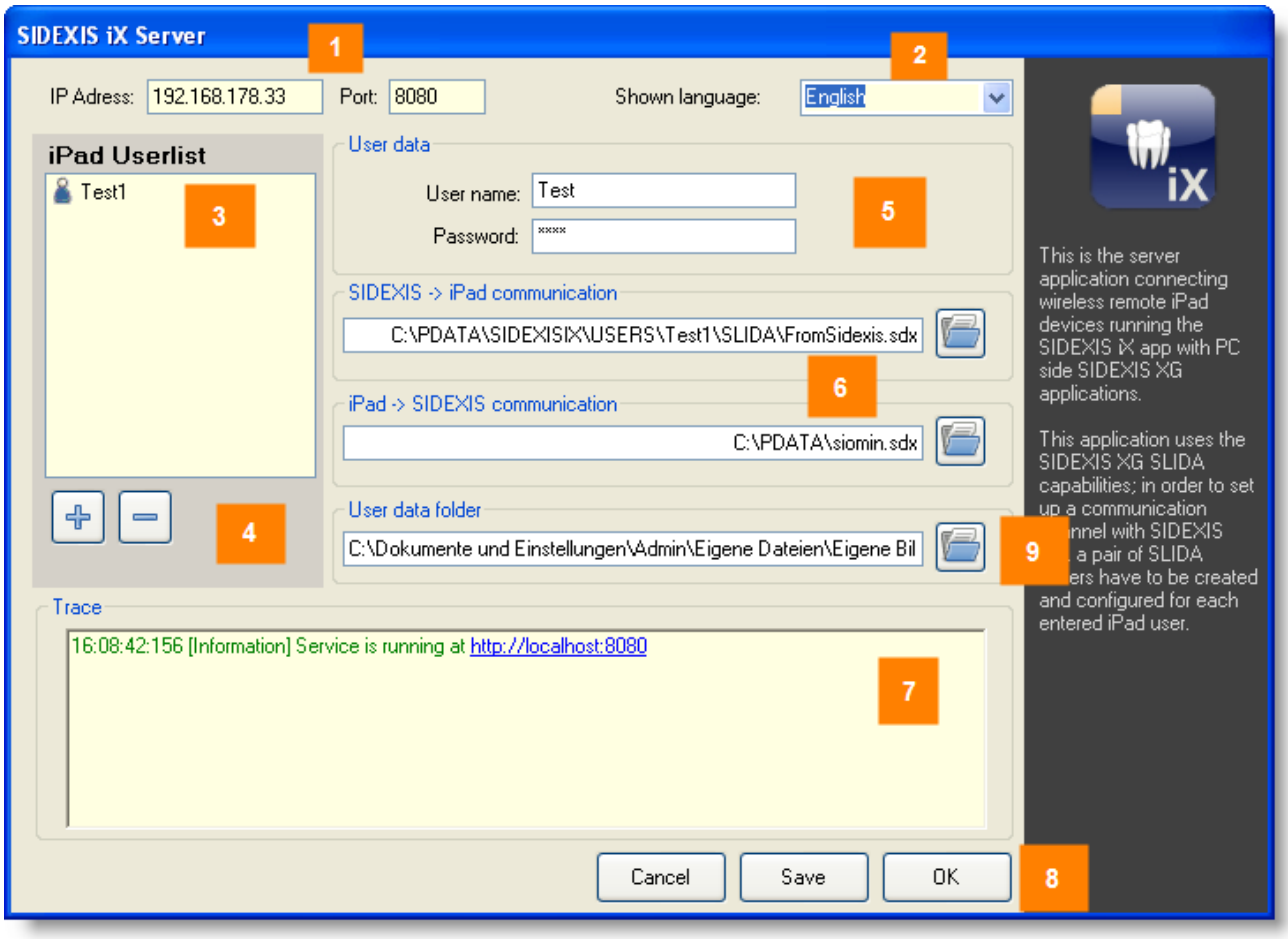
After completion of the image recording process image data is transferred to the iPad automatically and corresponding results are shown in the image view of the SIDEXIS iX app.

If the exposure readiness dialog is canceled or any network problems occur the requested data can be fetched just by **restarting** the SIDEXIS iX app. In that case the app asks for pending data and will transfer image and patient data automatically to the iPad.

Important notice: exposure readiness requires an available WiFi network connection to the SIDEXIS iX server. This function is only available in the SIDEXIS iX full version.

In case of failure the exposure readiness can be established using the remote SIDEXIS PC installation directly.

Settings



#	Description
1	IP address and IP port of the server. The remote iPad must be configured to match these settings. If the automatic configuration of IP address data is handled via Bonjour, this items are shown just for informational reasons.
2	Shown language.
3	List with already configured iPad users. Multiple iPads are allowed.
4	Add or remove iPad user.
5	Existing user data may be edited here optionally,
6	SIDEXIS communication settings (read only). The correct values will be entered while adding new users automatically.
7	Realtime log display.
8	Cancel: close shown dialog

	Save: save all settings OK: save settings and close dialog.
9	Selectable user data folder. The content of this folder will be shown using the SIDEXIS iX folder import function.

FAQ and troubleshooting



- **Are user name and password settings identical on both iPad and SIDEXIS iX server side?**

  Check and correct settings on both sides.

  Possible display in trace window in case of wrong authentication data:

  Unknown or wrong Username or Password

- **Are IP address and IP port correct?**

  The iPad server settings must match the server IP address shown inside the SIDEXIS iX settings dialog.

- **Is the WiFi connection established?**

  Please check if the WiFi symbol is shown on the iPad display. Perhaps WiFi configurations have to be done first at the WiFi base station/firewall to register the iPad device to the network.

- **Firewall settings correct?**

  The SIDEXIS iX server setup has already configured the standard Windows firewall. Using any alternative firewall product may require to add following custom rule:

  incoming TCP traffic on port 8080.

- **SIDEXIS XG does not accept new exposure readiness requests**

Insure that SIDEXIS has been restarted after applying new settings inside SIDEXIS iX server.

Full version purchase

SIDEXIS iX light displays a purchase option in the settings dialog at the SIDEXIS iX server position.

Right after selecting this function starts the purchase procedure of the SIDEXIS iX full version.
A connection to the Apple AppStore will be established and requires an existing iTunes user account.

After completion of the purchase procedure advanced features of the full version will be enabled automatically.

The necessary PC side SIDEXIS iX server software can be downloaded from following link:

http://www.sidexis.com

Appendix

New in Version 3.5

Image transfer from SIDEXIS iX app 3.5

This SIDEXIS iX server version supports a new image transfer mode from the Pad app to the SIDEXIS 4 database.
This feature requires an iX app version 3.5 ff. and SIDEXIS 4.1.3 on the PC side. SIDEXIS XG does not support this feature at all.

Windows 10 support

The SIDEXIS iX server can be used on Windows 10 PCs.

New in Version 3.3



SIDEXIS 4 support
This SIDEXIS iX server version supports both SIDEXIS XG and SIDEXIS 4 installations. Working online patient and image data can be retrieved directly from the iPad.

An already installed SIDEXIS client is reuqired in order to install this online support prior iX server installation. The welcome dialog of the setup application shwos which SIDEXIS support will be installed:



New in version 2.6

Automatic server address configuration using Apple Bonjour. Starting with version 2.6 (iX server and iX app) no manual IP address configuration is required anymore. Available iX servers will be displayed at SIDEXIS iX app for easy selection.

Server side data backup and restore of iX app data.

03.12.2010	Version 1.0.x (M. Reinke, RSWE)
14.03.2011	Version 2.0.x (M. Reinke, RSWE)
25.02.2012	Version 2.0.15(M. Reinke, RSWE)
09.03.2012	Version 2.0.17(M. Reinke, RSWE)
27.01.2013	Version 2.6 (M. Reinke, RSWE)
14.01.2015	Version 3.3 (M. Reinke, RSWE)
19.10.2016	Version 3.5 (M. Reinke, RSWE)
29.03.2017	Version 4.0 (M. Reinke, RSWE)