

9.6.4 Data Synchronization Facts

You can synchronize data between a PC system and a mobile device. You can also synchronize data between your PC or mobile device and the cloud, or even between a mobile device and a car. Use a USB cable or wireless connection to connect to a desktop or cloud to synchronize your data. You can also configure both a PC and a mobile device to use the same iCloud account.

Online services use mutual authentication or single signon to allow you to connect to their servers to sync data. Mutual authentication, also called two-way authentication, is a process or technology where both entities in a communications link authenticate each other. In a network environment, the client authenticates the server and vice-versa.

For example, iTunes requires you to authenticate using your Apple ID to its servers, while at the same time, Apple verifies that the iTunes app on your computer or device is the same app and computer used to access your iTunes account. Mutual authentication is used for multiple services like purchasing music and ebooks and saving content to the cloud.

Also, be aware of any software requirements needed to install the application on your PC or mobile device. Some software require a specific operating system and cannot run on any other operating system. For example, Android apps run on only Android devices. Apple apps run on only devices with iOS.

Types of data you can synchronize:

- Contacts
- Programs
- Email
- Pictures
- Music
- Videos
- Calendar
- Bookmarks
- Documents
- Location data
- Social media data
- eBooks
- Passwords

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