



How does it work?

- Users attempt to start the COBOL program via thin client in the usual manner.
- AcuConnect detects that an auto update is needed.
- **acuthin** asks the user to allow or cancel the auto update.
- If the user allows the update, an installation file is downloaded to the client.
- The installation file is executed and installs the new **acuthin**.
- Once installation is complete, the new **acuthin** starts the COBOL program.

What triggers the auto update?

- There are 4 ways that trigger the auto update - version number mismatch, protocol number mismatch, TC_REQUIRES_BUILD_NUMBER or TC_CHECK_INSTALLER_TIMESTAMP.
- TC_REQUIRES_BUILD_NUMBER – set to patch or beta build number
 - Obtain the build number from the **acuthin** version check (“acuthin -v”)
- TC_CHECK_INSTALLER_TIMESTAMP
 - Update triggered if mismatch between timestamp of:
 - server installer file and “acuthin.exe” or
 - server installer file and the client installer file (if one has already been downloaded)

What is needed as to set this feature up?

Server

- Updated version of AcuConnect and the runtime
- Installation file
 - Default file is “acuthin.msi”.
 - Default location for the installation file is the runtime directory.
- Place auto update configuration entries into the *runtime_configuration* file.
- MSI patch files (only if needed by client machines)

Client

- None – but **acuthin** must be Version 7.2.0 or later

One of the best features with the auto update feature is the ability to custom configure the update feature.

- Dialog boxes can be displayed or not.
- Messages and title bars can be customized.
- Standard installation file is provided, but developers can write their own installation programs.
- Auto update can be completely silent.
- **acuthin** can be configured to either
 - exit upon starting the installer, or
 - start the COBOL program after the installation has finished

Step 1: Check if auto update is disabled.

- TC_DISABLE_AUTO_UPDATE
- Server-side configuration variable
- ATC_AUTO_UPDATE
 - Client-side “.atc” variable
 - Set to “0” or “off” to disable auto update
- “acuthin --noautoupdate”

Step 2: Thin client informs user that an auto update is required.

- TC_AUTO_UPDATE_QUERY
 - Setting to “0” skips this message box.

Thin client informs user that an auto update is required.

- TC_AUTO_UPDATE_QUERY_TITLE
- TC_AUTO_UPDATE_QUERY_MESSAGE

Step 3: Thin client displays a download progress dialog.

- TC_DOWNLOAD_DIALOG
 - Setting to "0" skips this message box.
- TC_DOWNLOAD_CANCEL_MESSAGE
 - Sets text of the cancel message

Thin client displays a download progress dialog.

- TC_DOWNLOAD_DIALOG_TITLE
 - Sets title of the progress window
- TC_DOWNLOAD_DESCRIPTION
 - Sets message of the progress window

Step 4: Thin client downloads the installer file.

- TC_INSTALLER_SERVER_FILE
 - Default is "acuthin.msi" in the runtime directory.
 - Installer file can be an ".exe", ".bat", ".cmd", ".html", or other file.
- TC_INSTALLER_CLIENT_FILE
 - Default is *appdata\ACUCOBOL-GT\acuthin.msi*

Step 5: Thin client launches the Windows Installer (if download file ends in ".msi").

- TC_INSTALLER_TARGET_DIR
 - Default is no value.
 - MSI file contains its own default path.
 - Value specifies the client installation directory (if installer file ends in ".msi").
- TC_INSTALLER_UI_LEVEL
 - Four display levels
 - 0 – NONE – user interface is not displayed
 - 1 – UNATTENDED – displays only informational and progress messages
 - 2 – Default – shown on previous slide
 - 3 – REDUCED – shown here
- TC_INSTALLER_ARGS
 - Feeds arguments to the Windows Installer or to ".exe" installation files
- For example, setting to */log msi.log* instructs the Windows Installer to create a log file.
- See the Windows Installer documentation for more details.

Step 6: Thin client waits for the installer process to exit and starts the new **acuthin** with the same command line parameters.

- TC_INSTALLER_RUN_ASYNC
 - Prevents the thin client from restarting after an auto update
 - Useful when the installer file handles the auto update process to completion

When the auto update fails

- TC_AUTO_UPDATE_NOTIFY_FAIL
 - Setting to "0" suppresses this message box.
- TC_AUTO_UPDATE_FAILED_TITLE
- TC_AUTO_UPDATE_FAILED_MESSAGE