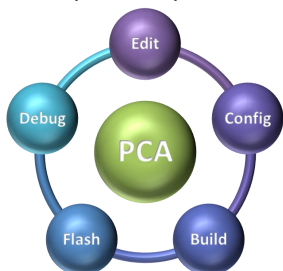


INCREASE DEVELOPER PRODUCTIVITY

Unleash the power of Microsoft® Visual Studio® on UEFI firmware. Firmware development requires a number of iterations: code change, build, re-flash, debug. The PCA Visual Studio debug extension IDE reduces context-switching overhead and simplifies the process.



ONE TOOL FOR THE ENTIRE DEVELOPMENT CYCLE

- PCA includes features for every stage of firmware development: project management, source code control and editing, build and deployment of a binary, and debugging.
- The PCA Solution Manager organizes solutions in a convenient tree structure in a single place. Create new solutions or open existing ones from within the same intuitive interface.

SPEED-UP DEVELOPMENT WITH PCA PRODUCTIVITY TOOLS

- SCT Configuration tool organizes hundreds of symbols to simplify customization efforts
- Wizards and templates automate creation of new drivers and files
- EDKII UEFI driver wizard integration
- Newly built binary is automatically flashed onto the target
- Debugging session starts immediately after flashing is complete
- Verification that the UEFI binary on the target matches the built source on the host debugger
- Debug breakpoint warnings to help troubleshoot and quickly resolve debug break failures
- Visual Studio Intellisense features
 - * Auto-complete, syntax checking, and syntax highlighting and coloring
 - * In-line protocol structure drop-down list
 - * File and Symbol search

SCALABILITY ACROSS VISUAL STUDIO VERSIONS, PROJECT TYPES, AND DEBUG INTERFACES

- VS2012, VS2013, and VS2015
- Serial port, USB 2.0, and USB 3.0 debug interfaces
- SCT2, SCT3, SCT4, EDK II, and ServerCore project types
- Phoenix DebugEngine and EDKII SourceLevelDebugPkg debug communication protocols

EMULATED ENVIRONMENT DEVELOPMENT

- Allows development of software without the need for an actual hardware target
- Phoenix emulated UEFI environment for SCT2 and SCT3 source code via WinHost
- UDK emulated UEFI environment for SCT4, EDK II, and ServerCore source code via Nt32Pkg

PCA Features

PCA PROJECT MANAGER

Productivity Tools

- > Solution Manager
- > Intellisense
- > SCT Configuration Tool
- > Project Wizards and Templates
- > EDKII UEFI Driver Wizard
- > Auto-deployment Flash Tools
- > Auto-launch Debug Sessions
- > Debugger/Debugee Binary Verification

Source Code Support

- > SCT 2
- > SCT 3
- > SCT 4
- > EDK II
- > ServerCore

Emulated Environments

- > WinHost for SCT2 & SCT 3
- > Nt32Pkg for SCT4, EDK II, & ServerCore

PCA DEBUGGER

Debug Protocols

- > Phoenix DebugEngine
- > EDK II SourceLevelDebugPkg

Debug Transports

- > Serial Port
- > USB 2.0
- > USB 3.0

Extended Debug Tools

- > Extended breakpoints
- > PCI Configuration Viewer
- > I/O Register Viewer
- > MSRs and CPUID Viewer
- > GDT Table Viewer
- > Debug Register Viewer
- > Target Reset and Power Off

SOFTWARE SUPPORT

- > Windows 7, 8, 8.1, and 10
- > VS2012, VS2013, and VS2015

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