|  |  |
| --- | --- |
| The CustomActions library went through several changes to support the “Loud Install” sequence, diagrammed earlier 🡪 | A picture containing timeline  Description automatically generated |

* The entire set of CustomActions includes (DetectRoaming was dropped):
  + InitProperties – called at the beginning of the Wizard sequence
  + RemoveInstalledProducts – called when user hits “Install” in the last dialog
  + ServiceControlStopRISA32 – called during Install sequence
  + ServiceControlStartRISA32 – called during Install sequence
* All CAs now return Action.Success, not Action.Failure, even if the CA fails. This is to avoid interception of Action.Failure by AI, which displays a generic error message, no details about what went wrong. How to replace this with our own detailed error dialogs is described in (2).
* Some new error conditions and error codes are returned in RISA\_STATUS\_CODE (1), but in general an AI installer can simply check if RISA\_STATUS\_CODE<>”RISA\_STS\_OK”. Detailed in (2).
* A couple properties or status codes were dropped (1).
* A new, optional property, RISA\_CA\_DEBUG was added, which can be used to write a trace file to the desktop (1). Can be extended to support other debugging scenarios.
* Undefined property detection was added to show specifically what property is missing.
* Conditional code at the beginning of InitProperties() – shows a MessageBox in order to attach a debugger – was changed to be conditioned on symbol ATTACH\_DEBUGGER (defined at the top of the file), rather than the VS provided DEBUG symbol. Reason: I learned the hard way to avoid requiring DEBUG or RELEASE builds for reasons that will get lost with time. We have antiquated home grown code that can only be built Release, for reasons nobody today understands. It’s a better practice to narrow the use of conditional code to very specific and obvious symbols instead. Further, this block of code could make use of the new RISA\_CA\_DEBUG property to fire, rather than triggering by compile time symbol (not required, but it’s now a possibility).

New or Revised Documentation (in C:\Advanced Installer\Documentation):

1. AI RISA Installer Properties.xlsx – the Apr9 worksheet describes property + status code changes
2. AI Loud Install CA Usage.xlsx – describes how to integrate the InitProperties and RemoveInstalledProducts CAs into an AI installer.