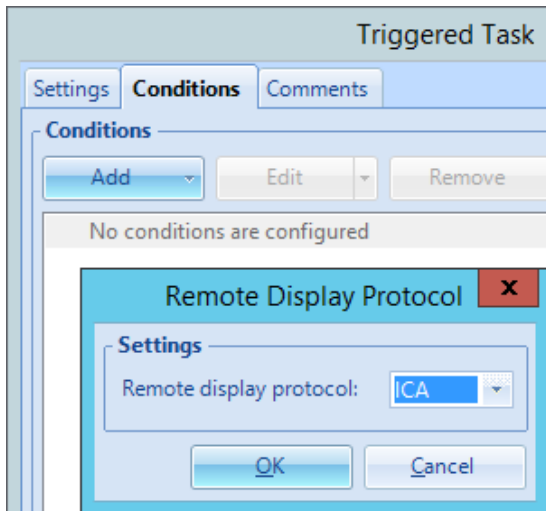


Evaluating conditions when a triggered task is triggered □

Just like pretty much any item in DEM, triggered tasks support conditions:



However, these conditions are evaluated when the triggered task's definition is processed (at logon or refresh.) They have no effect whatsoever when the defined trigger occurs and the configured action is performed. We have previously considered adding another level of conditions on the triggered task's action itself, but usability analysis showed that to be too confusing in general.

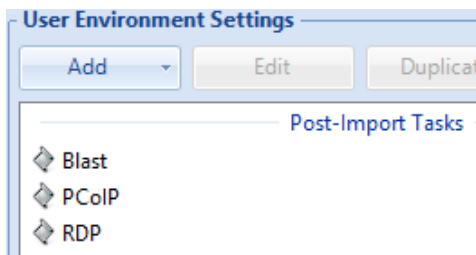
Still, there are use cases where this could be useful, and with a little bit of ~~hacking~~ creativity we can do this using built-in functionality.

Leveraging conditions from a triggered task action

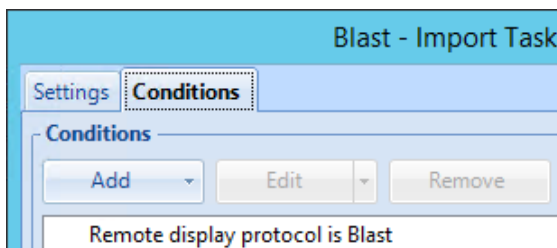
Let's say we want to perform an action at session reconnect, based on the remote display protocol. Putting a *Remote Display Protocol* condition on the triggered task itself won't work, as described above. Using a workaround, this use case can still be covered.

Overview

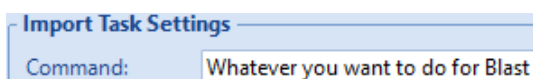
The workaround uses *Post-Import Tasks*, configured as *User Environment Settings* on a special personalization config file:



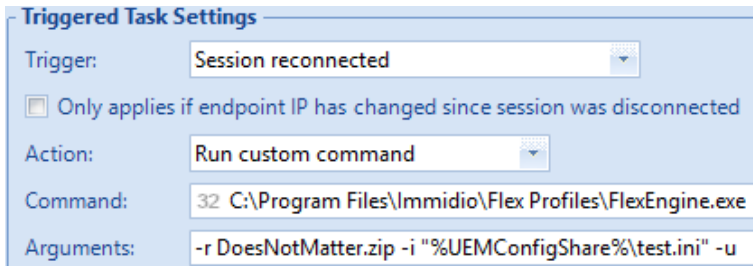
Each of these tasks has a condition configured to make sure it only runs for the corresponding remote display protocol:



Each task's *Command* is configured to whatever needs to happen for a reconnect with that particular protocol:



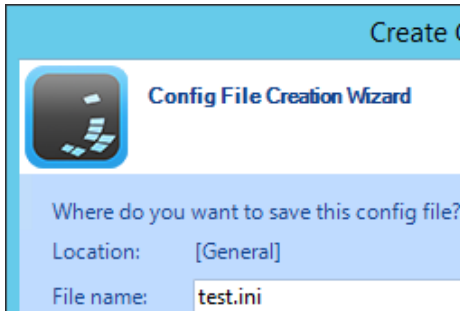
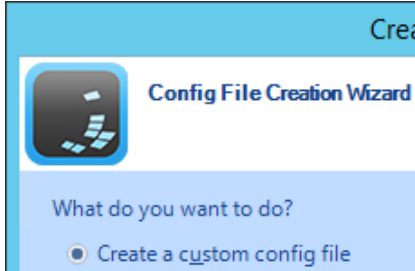
Finally, from the "unconditioned" triggered task we call the DEM agent to process this special personalization config file at session reconnect:



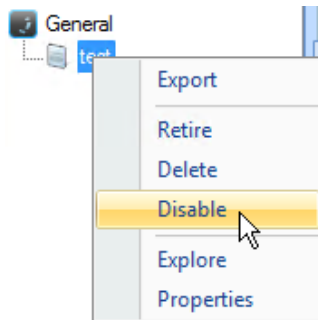
Creating the special personalization config file

Create config file

For the purpose of this document, let's create a new custom config file in the root of the configuration share, with file name `test.ini`.

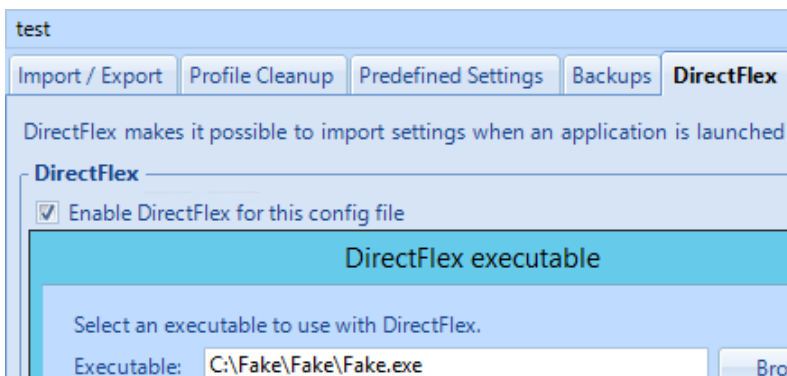


As we will only be using this config file for our special purposes, we can *disable* it so as not to take any effect in normal operations:



"Enable" DirectFlex

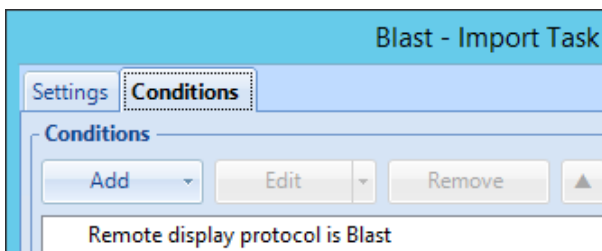
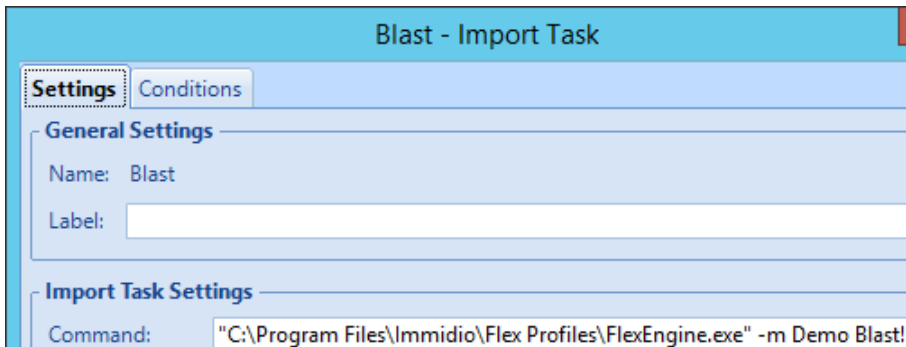
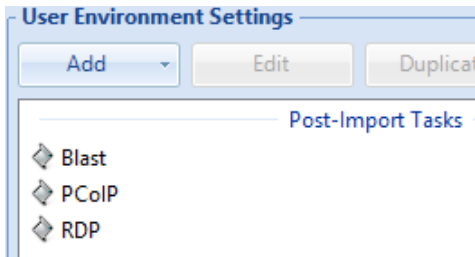
As the *User Environment Settings* feature is only available when DirectFlex or App-V 4.x integration is enabled, let's configure a fake DirectFlex executable:



We will not actually be using DirectFlex (as the config file has been disabled), so the executable name does not matter – it's just a trick to enable the *User Environment Settings* feature.

Define protocol-dependent tasks

On the *User Environment* tab, we create the import tasks, each configured to perform whatever needs to happen for a reconnect with a particular remote control (as configured via the *Conditions* tab on that task):

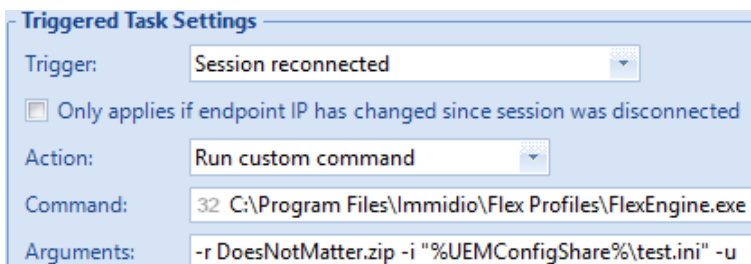


The *Names* of these tasks don't matter, of course; it's really down to the *Remote Display Protocol* condition and the *Command*. In this example we're using the DEM agent to show a message with the protocol name.

The PCoIP and RDP tasks are defined similarly, with corresponding *Remote Display Protocol is PCoIP/RDP* conditions and *-m Demo PCoIP/RDP!* arguments.

Creating the triggered task

The triggered task to launch the protocol-dependent commands at session reconnect looks like this:



NOTE: Do not configure any *Remote Display Protocol* condition for this triggered task.

The configured command launches the DEM agent with arguments `-r DoesNotMatter.zip -i \"%UEMConfigShare%\test.ini\" -u`

- `-i` refers to the special config file. `\"%UEMConfigShare%\test.ini\"` would be the correct path for the steps described above, but this file can reside *anywhere* – it does not need to be in the *General* folder or even on the DEM configuration share, and it can have any file extension you like. As long as the DEM agent has read access, that's sufficient. (Of course, to edit the file in the Management Console it needs to be in a "standard" location with a standard name.)
- `-u` is the undocumented but supported argument that enables *user environment* settings for file-based actions (i.e. DEM agent invocations that process an individual Flex config file, like we're doing here.)
- `-r` points to a non-existing profile archive. Although we're not actually looking to import anything, `-r` is a mandatory argument... Location and file extension matter even less here, so something like `-r \"%LOCALAPPDATA%\Does.Not.Exist.tmp\"` would

be fine as well (and maybe slightly more robust than the example from the screenshot.)

Run-time behavior

With these settings in place, reconnecting to a session using Blast will show the "Blast!" message box, and log messages like the following:

```
2020-04-29 11:13:29.988 [INFO ] Performing file-based import
2020-04-29 11:13:29.989 [DEBUG] DEM actions are enabled for file-based operations
2020-04-29 11:13:29.989 [DEBUG] Processing config file '<Share>\General\test.ini'
2020-04-29 11:13:29.992 [INFO ] No profile archive 'DoesNotMatter.zip' to import
2020-04-29 11:13:29.994 [DEBUG] Running on Horizon (session 3)
2020-04-29 11:13:29.994 [DEBUG] Conditions: Check for remote display protocol Blast = true
2020-04-29 11:13:29.994 [INFO ] Running post-import task ('"C:\Program Files\Immidio\Flex
Profiles\FlexEngine.exe" -m Demo Blast!') ('test.ini.Blast')
2020-04-29 11:13:36.104 [DEBUG] Conditions: Check for remote display protocol PCoIP = false
(current protocol = Blast)
2020-04-29 11:13:36.104 [INFO ] Skipping post-import task due to conditions ('test.ini.PCoIP')
2020-04-29 11:13:36.104 [DEBUG] Conditions: Check for remote display protocol RDP = false (current
protocol = Blast)
2020-04-29 11:13:36.104 [INFO ] Skipping post-import task due to conditions ('test.ini.RDP')
```

Disconnecting and reconnecting using PCoIP will show the "PCoIP!" message, with the following log messages:

```
2020-04-29 11:13:55.597 [DEBUG] Running on Horizon (session 3)
2020-04-29 11:13:55.597 [DEBUG] Conditions: Check for remote display protocol Blast = false
(current protocol = PCoIP)
2020-04-29 11:13:55.597 [INFO ] Skipping post-import task due to conditions ('test.ini.Blast')
2020-04-29 11:13:55.598 [DEBUG] Conditions: Check for remote display protocol PCoIP = true
2020-04-29 11:13:55.598 [INFO ] Running post-import task ('"C:\Program Files\Immidio\Flex
Profiles\FlexEngine.exe" -m Demo PCoIP!') ('test.ini.PCoIP')
2020-04-29 11:14:05.491 [DEBUG] Conditions: Check for remote display protocol RDP = false (current
protocol = PCoIP)
2020-04-29 11:14:05.491 [INFO ] Skipping post-import task due to conditions ('test.ini.RDP')
```

Logging to another file

By default, these log messages appear in the standard FlexEngine log file. To log to another file, add `-f fully-qualified-path-to-other-log-file.log` to the DEM agent's arguments in the triggered task definition, e.g. `-r "%LOCALAPPDATA%\Does.Not.Exist.tmp" -i "%UEMConfigShare%\test.ini" -u -f "%UEMProfileArchives%\SpecialTriggeredTasks.log"`

You can also adjust the log level (`-l INFO`, [for instance](#)), or disable logging for these DEM agent runs altogether with `-f-` (note that this is *dash eff dash*, i.e. that there is no space.)