TECHNICAL SERIES

WORKLIST DRONE CONFIGURATION

Original Software

TYLER DILLON

JULY 2021

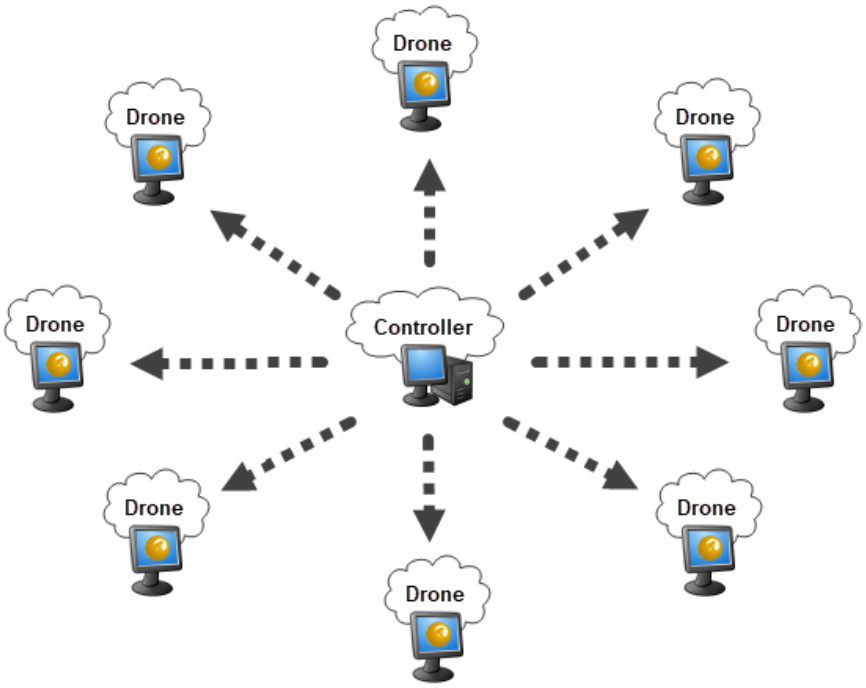
BERTIE 4

TABLE OF CONTENTS

SYNOPSIS

Worklists allow a set of Playlists to be run over a suite of PCs without the need for a user to be physically sat there to run them, effectively simulating a multiple user scenario. A master PC or 'Controller' is used to execute the Worklist and the Playlists within it run on multiple 'Drones' which can be physical PCs or Virtual Machines.

Each Playlist within the Worklist can have different requirements, for example one might require Firefox version 10, and this list of 'Features' is automatically matched to the installed programs on each Drone to ensure compatibility. Playlists wherever possible run concurrently on the Drones, with the option to add 'Synchronization Points' to the Worklist to allow all previous Playlists to complete before the next batch of testing commences.



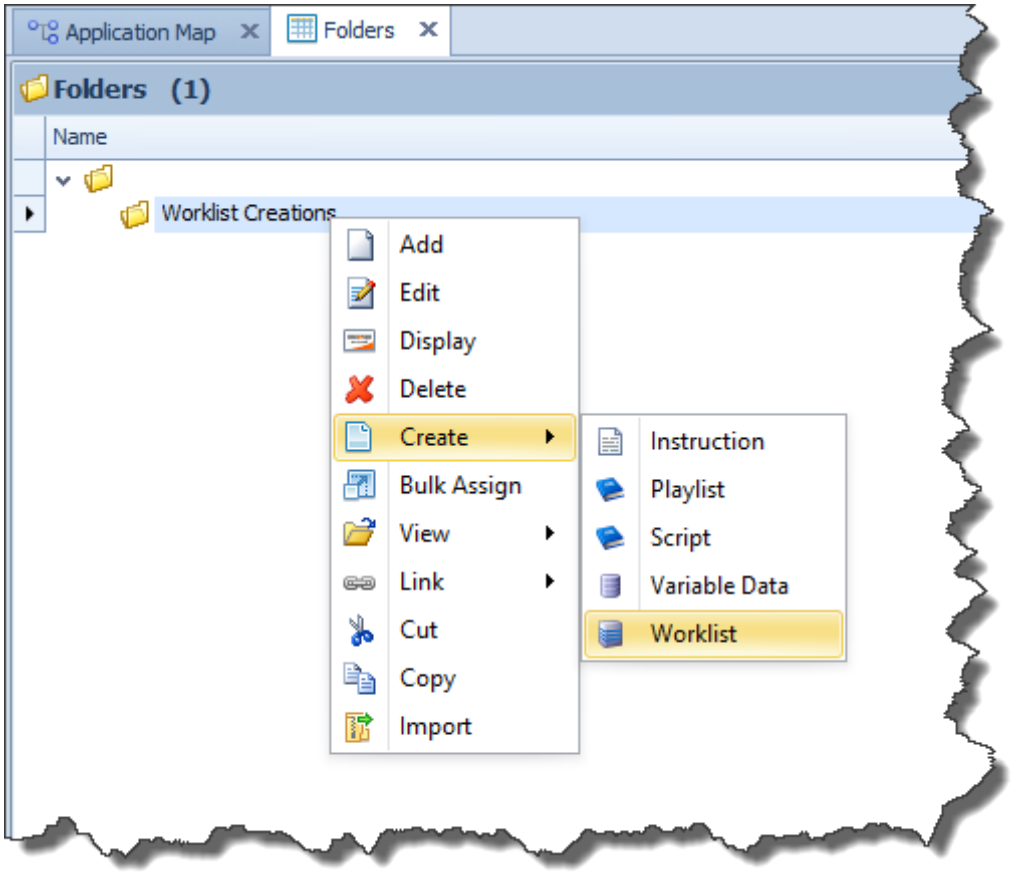
This technical article is built on the Worklist Infrastructure document. Please review the document before continuing the Worklist Drone Configuration.

GETTING STARTED

ACCESSING WORKLIST

By default, Worklists can be accessed from the Asset Explorer application definition in Qualify. This is done by right clicking on a folder.

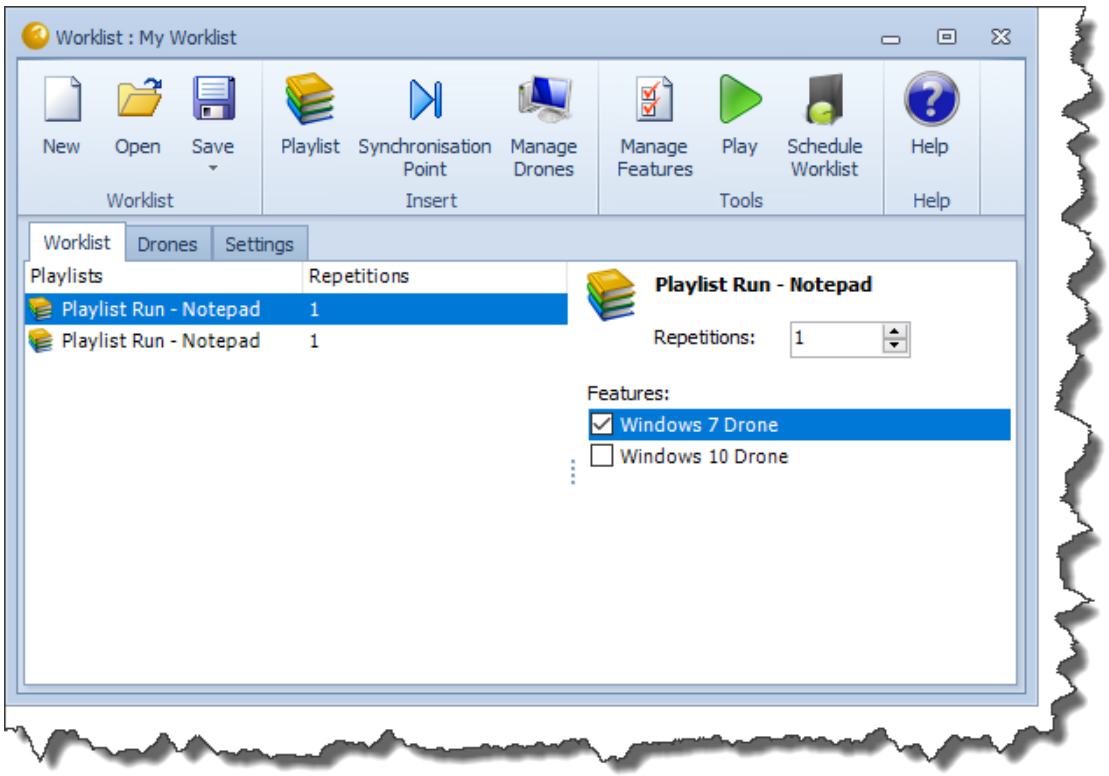
Worklist can also be created through your own application definition if Worklists have been incorporated into your Model. If looking to incorporate, please work within your team internally or contact Original Software for assistance.



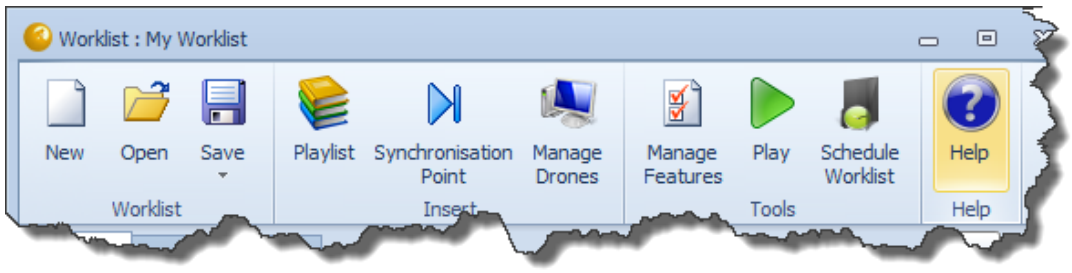
WORKLIST FOUNDATION

WORKING WITH WORKLIST

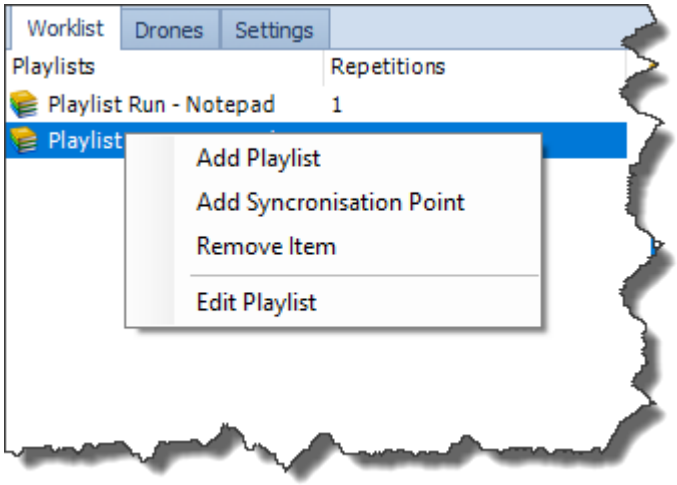
With the creation of Worklist, you now can effectively playback playlist over multiple machines concurrently without the need of setting up multiple .bat files on the remote (Drone) machines.



To understand all the Worklist included features, please refer to the Worklist Help Documentation. This can be accessed through the Help button on the Worklist form.

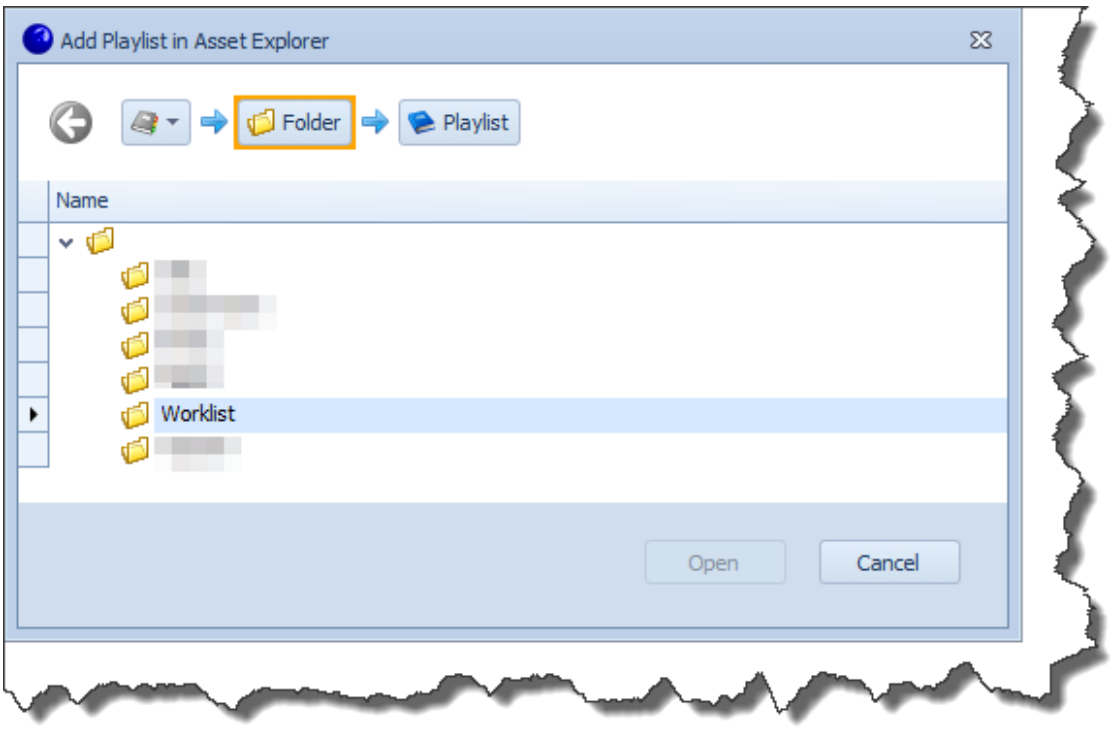


Within a Worklist, you have several options that are via the right click menu. Options available within the Worklist area can be accessed from the right click menu and from the toolbar. Add Playlist and Add Synchronization Point are both accessible on the main toolbar.

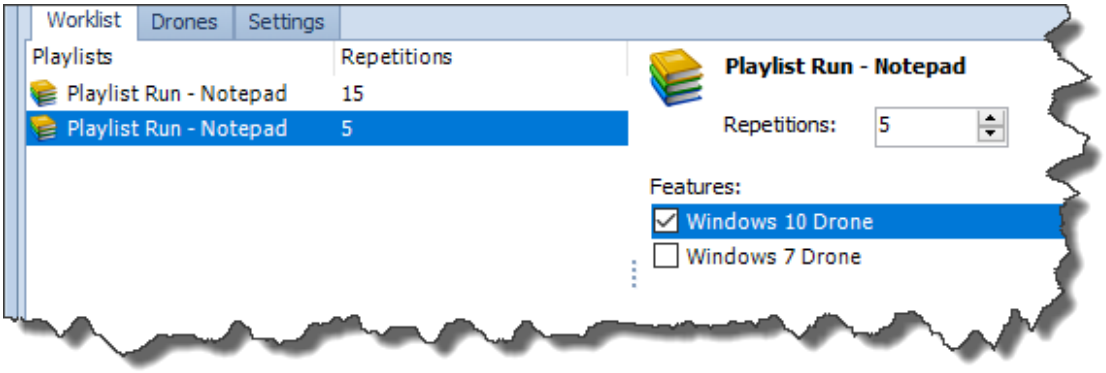


Generally, you can edit a playlist within Qualify and within the Playlist Editor. With Worklist, you can access the selected playlist and edit at a moment's notice. This removes the need of having to navigate outside of Worklist to make any necessary changes to the playlist itself.

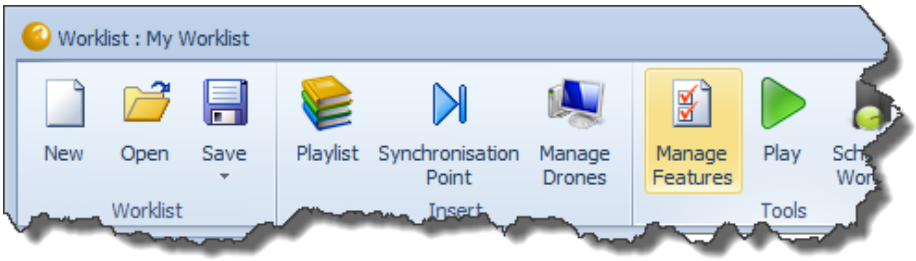
When inserting Playlist into a Worklist or doing a Save As, the following panel will appear and will only show the relevant entities in the display.



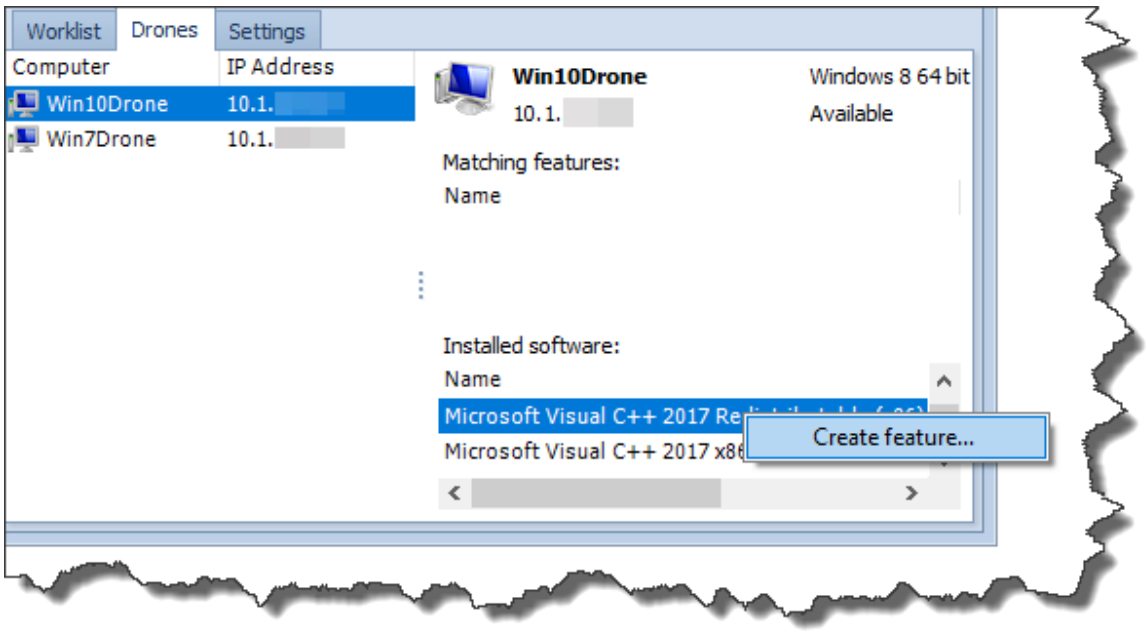
With a playlist being added into the Worklist, you now have properties on the right-hand side that allow changing of how many repetitions the playlist will playback and if the Features area has been setup, you will have the option to select the feature according to the necessary playlist.



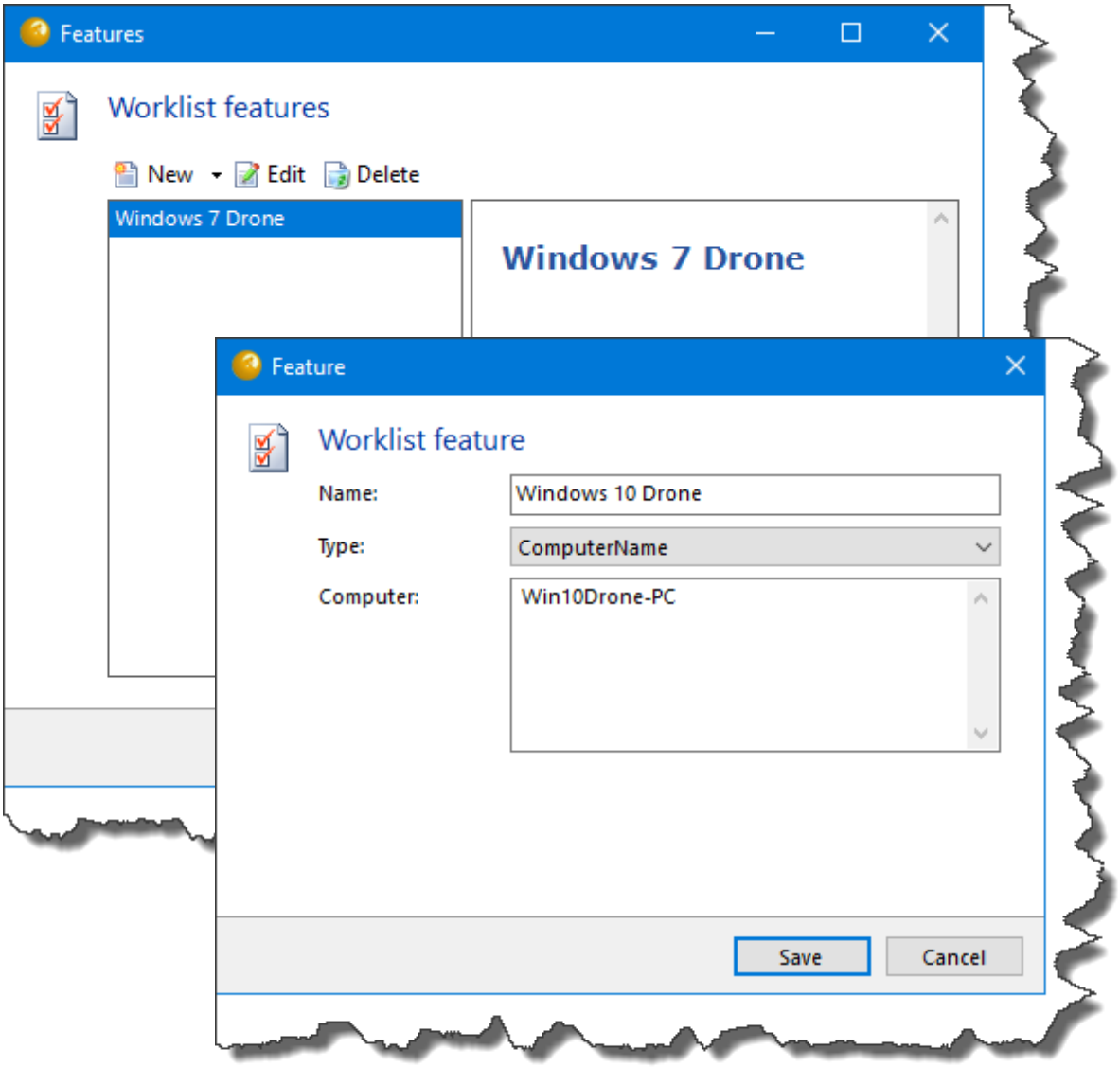
To access and setup Features, you will need to select Manage Features in the toolbar.



In the Features form, you will have the option to specify what type of software is installed on the machine, the machine name, the IP address, etc. These options help point to which Drone will be used for the playback of the Worklist. However, features can also be created when viewing a Drone on the Drones tab and right clicking in the installed Software panel. This allows for an easier method for adding installed Software type, rather than keying in manually by hand.



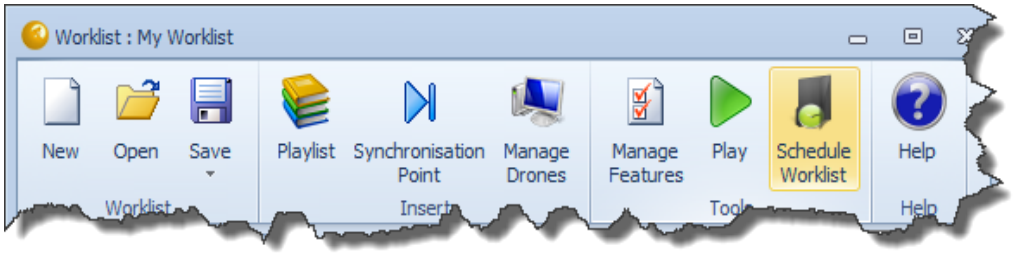
With the following example below, you easily create the features from the Type selection field and fill the necessary details in, so you may later assign the feature to your Drone(s).



SCHEDULING WORKLIST DRONE

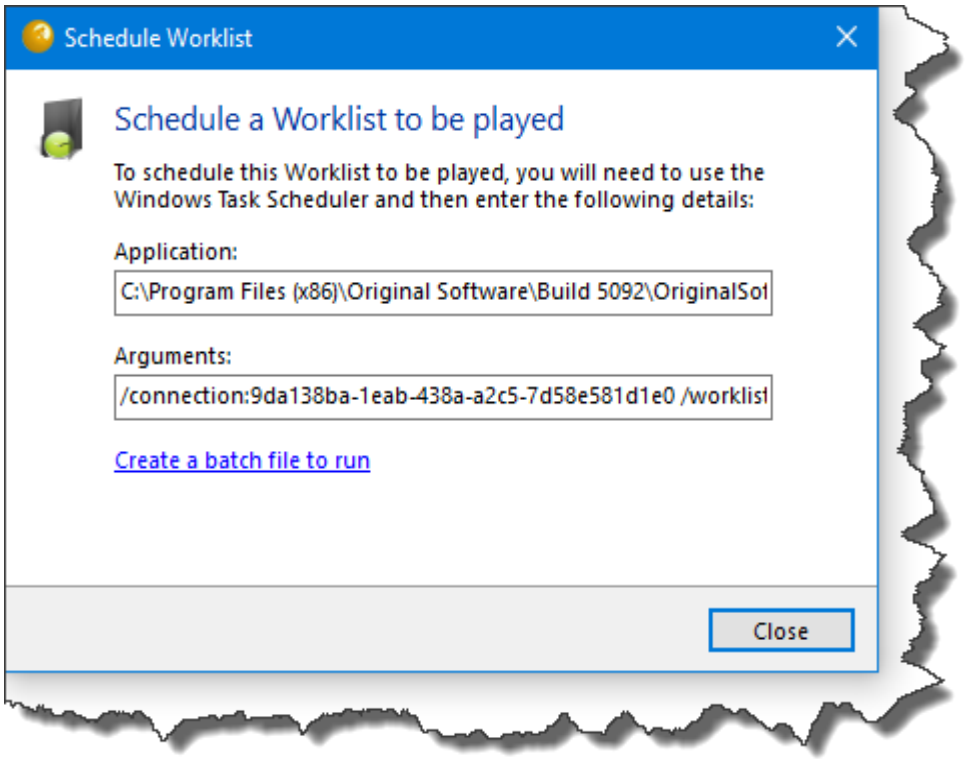
INVOKING CONTROLLER MACHINE

On the controller machine, to create a batch file (.bat) to run Worklist in an unattended state outside of Qualify/TestDrive, then you will need to select the Schedule Worklist option in the toolbar.



*Review page 14 if experiencing "Unable to open firewall" issue.

In the Schedule Worklist prompt, you will have the Application and Arguments that will make up the .bat file when it is created. Select the "Create a batch file to run" link to save the .bat file to a location on the machine. This can be used in conjunction with Task Scheduler to help automate the scheduled Worklist.



To completely automate an unattended scheduled Worklist, please see page 15 or select the link below.

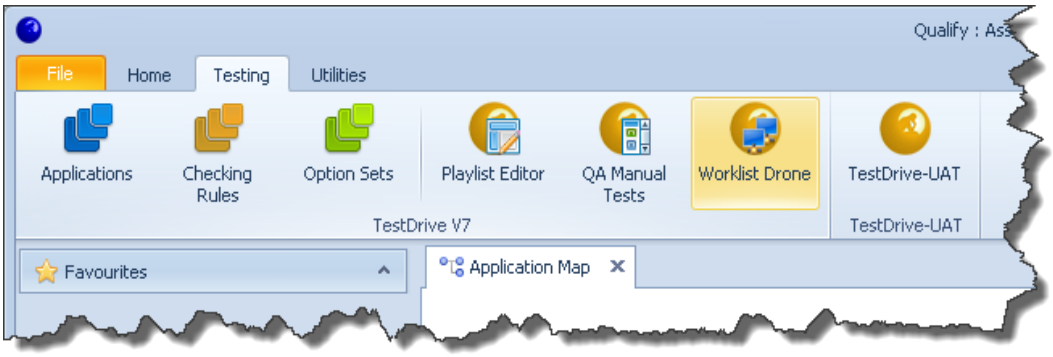
Enabling Locked or Inactive Remote Windows Machines

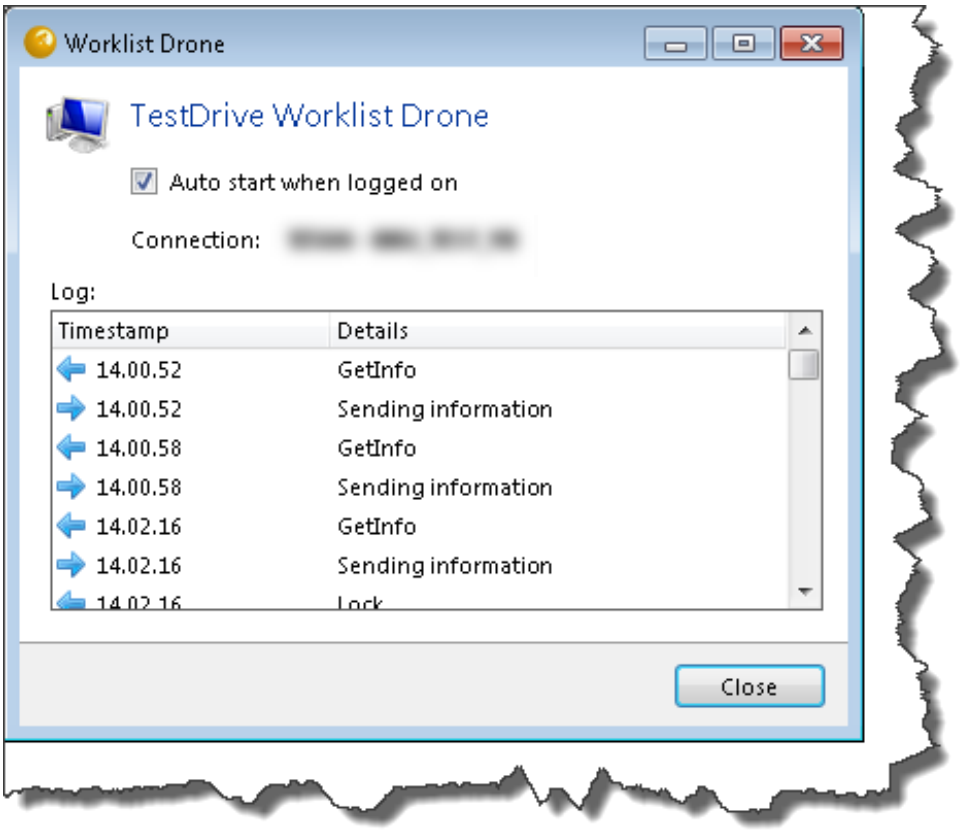
REMOTE (DRONE) MACHINE SETUP

WORKLIST DRONE COMMUNICATION

On the remote (Drone) machine, you need to place the Drone on the machine. This enables the controller machine and the done machine to communicate and allow successful playback of the Worklist Drone.

You will need to access Qualify on the remote machine that you want the Drone to be placed on and navigate to the Testing tab and select the Worklist Drone button.





A Worklist Drone is now placed on the remote machine and with interacting with the playlist on the controller via the Worklist, you will see activity in the Details column on the drone machine.

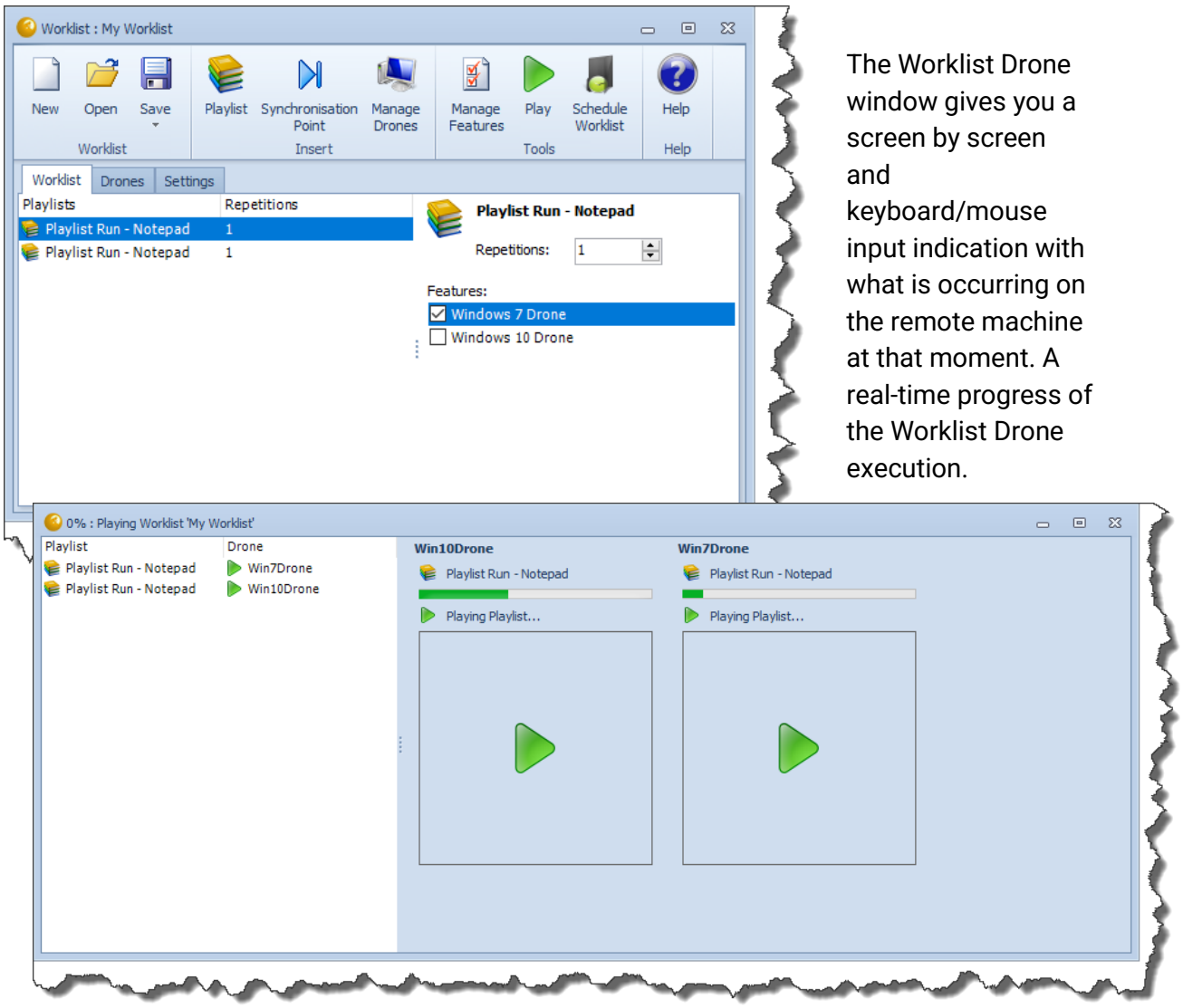
To avoid manually adding Worklist Drone on each Windows login or restart, checkmark the option “Auto start when logged on”

***Review page 14 if experiencing “Unable to open firewall” issue.**

WORKLIST DRONE EXECUTION

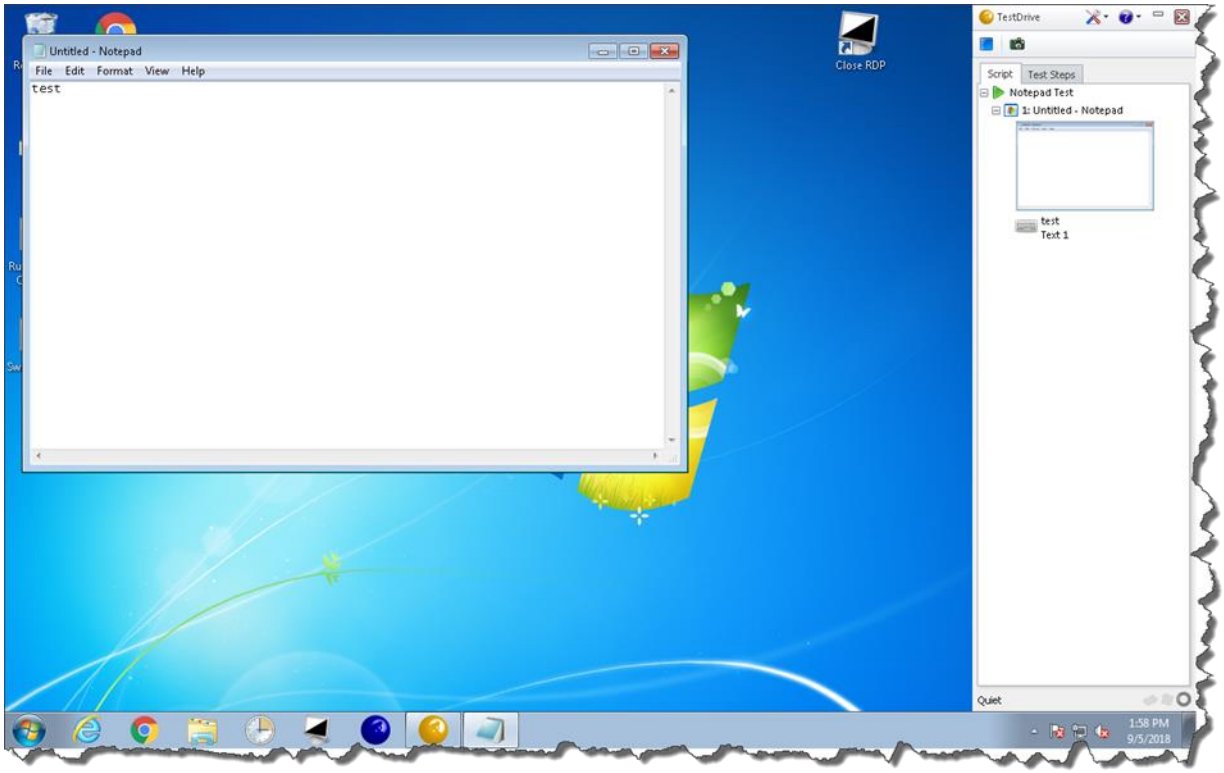
WORKLIST AND REAL-TIME DRONE PLAYBACK

With the execution of a Worklist being invoked manually or via the Task Scheduler on the controller machine, you will now have another window showing the status of the playlist runs on the Drone machines.

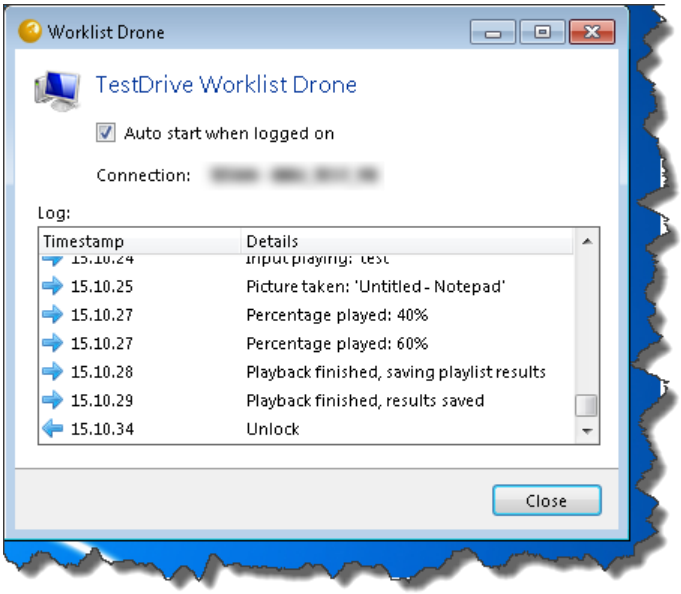


The Worklist Drone window gives you a screen by screen and keyboard/mouse input indication with what is occurring on the remote machine at that moment. A real-time progress of the Worklist Drone execution.

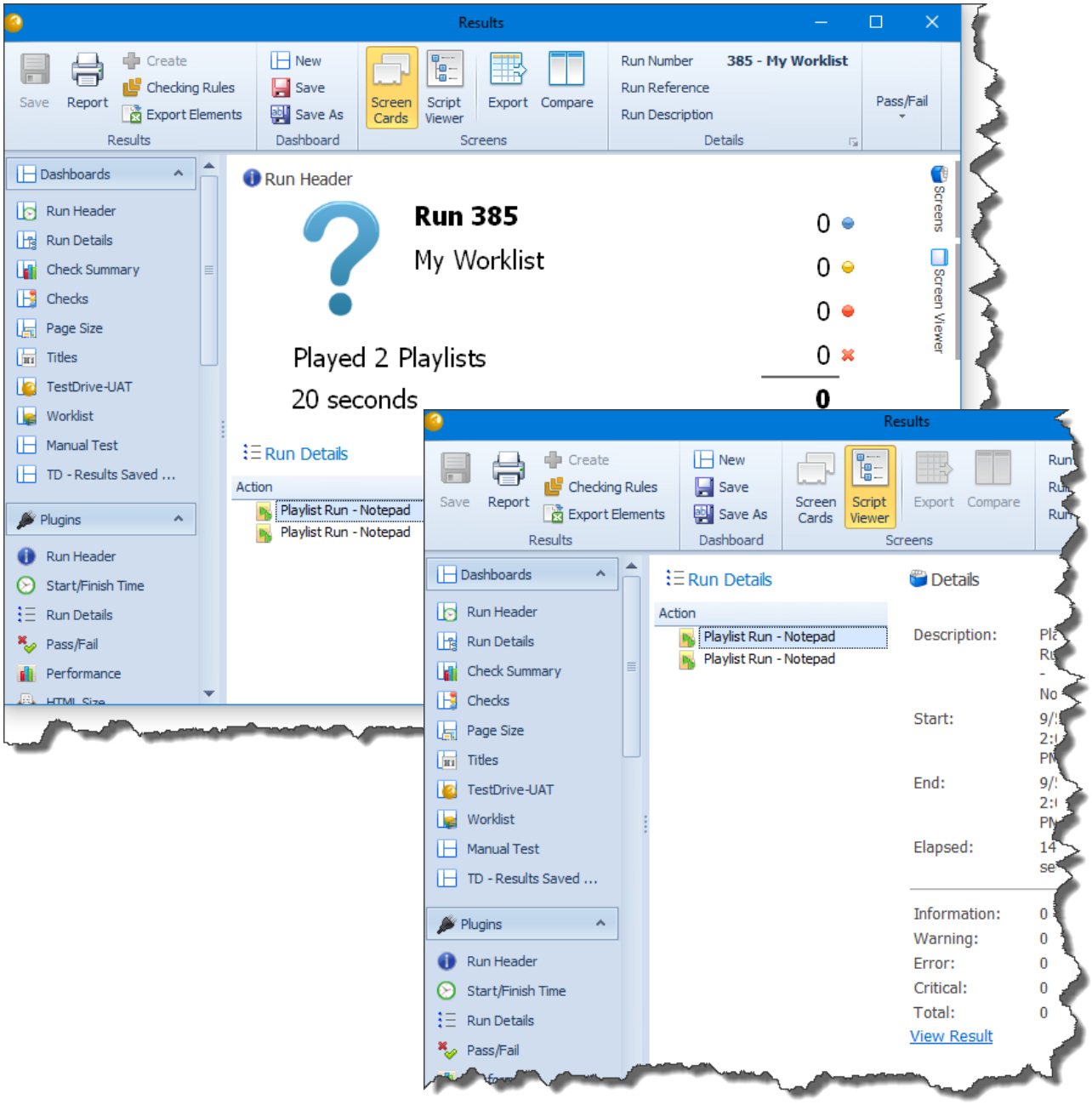
While the Worklist Drone is executing from the controller machine, we can see the playback occurring on one of the Drones (Windows 7 machine). The playlist playback behaves as if you executed the playlist on the remote machine itself.



Once the Worklist has finished playing successfully on the Drone machines, the TestDrive sidebar will close and if you look at the Drone, you can see the activity of the Drone with a timestamp and details of the moment of execution.



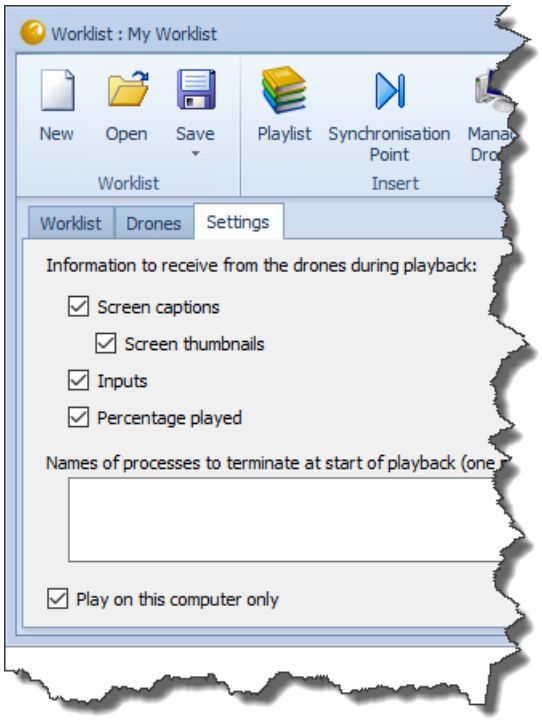
Alongside the completion of the Worklist Drone execution, the Worklist playback will automatically be saved, and you will receive a Results window that will show the details of the playlist executed. To see individual actions from the playlist, you will need to select Run Details on the left-hand side under Dashboards and then select “View Result” at the bottom.



RUNNING WORKLIST LOCALLY

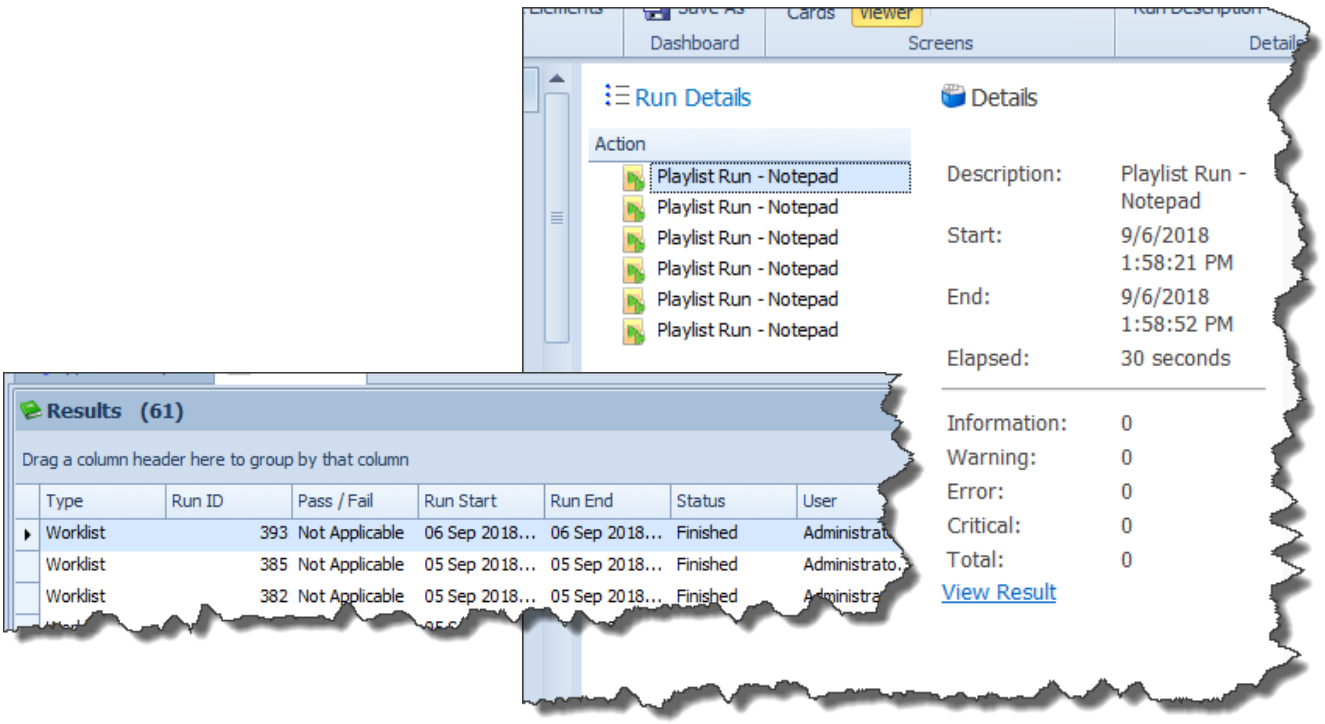
WORKLIST WITHOUT DRONES

Worklist can leverage remote machines (Drones) to run multiple playlists concurrently, which is what we refer to as Worklist Drone. This is a very powerful feature; however multiple playlists can also be run consecutively on your local machine. In the Worklist settings tab, at the bottom of the panel is an option “Play on this computer only”.



This feature allows multiple playlists to run one after the other without the use of creating multiple .bat files to be executed manually or via the Task Scheduler in Windows. Worklist becomes a container for all the playlist which can be ran directly from Worklist or will create only one batch file on the machine locally to be executed later.

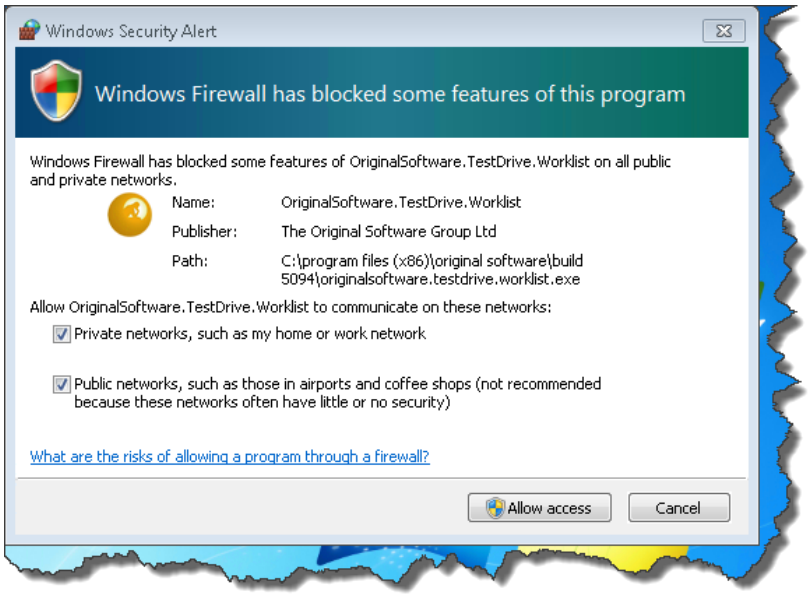
Typically, a playlist produces a set of results, and these results are saved as an individual record. With Worklist, all the playlist results are held with the Worklist container. So, when viewing results, you will only see a set of Worklist Results. To view the playlist results separately, review page 12 as reference.

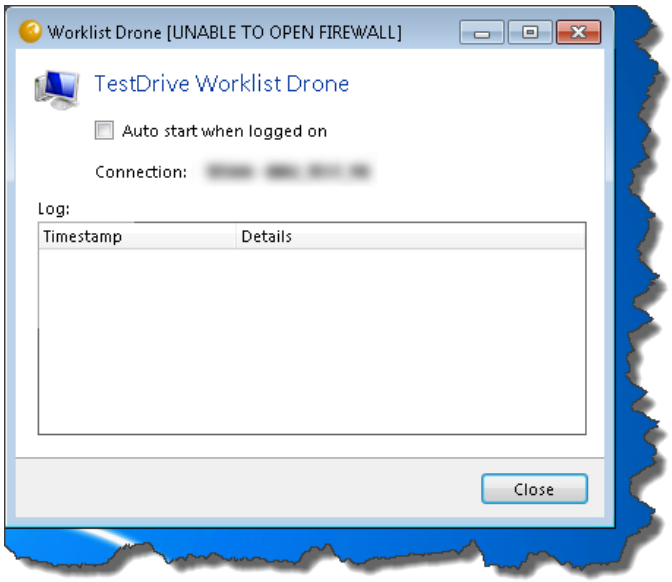


WORKLIST DRONE FIREWALL

UNABLE TO OPEN FIREWALL

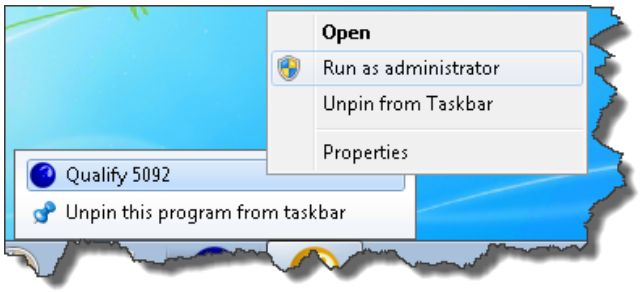
When first setting up Worklist Drone on a machine the first time, you will be prompted with a Windows Firewall notification, and you will need to allow access across the network for Worklist Drone as a requirement to run successfully.





Depending on the machine permissions/security, the Worklist Drone will indicate it is unable to open the firewall to communicate to the Controller machine. To resolve this issue, you will need to open/run Qualify as an “Administrator” on the Controller machine and Drone machine (Only need to perform this step once).

Performing the Administrator step will open the Windows firewall and allow communication needed for Worklist Drone.



COMPLETE UNATTENDED PLAYBACK

WORKLIST AND WAKING REMOTE MACHINES

With the Worklist solution in place, you may be looking to setup an unattended playback when using the Worklist for a daily or nightly run. To achieve this, you will need to refer to the Enabling Locked or Inactive Remote Windows Machines document on the origsoft website in the knowledgebase customer area.

https://origsoft.com/pauple_helpie/enabling-locked-or-inactive-remote-windows-machines/