

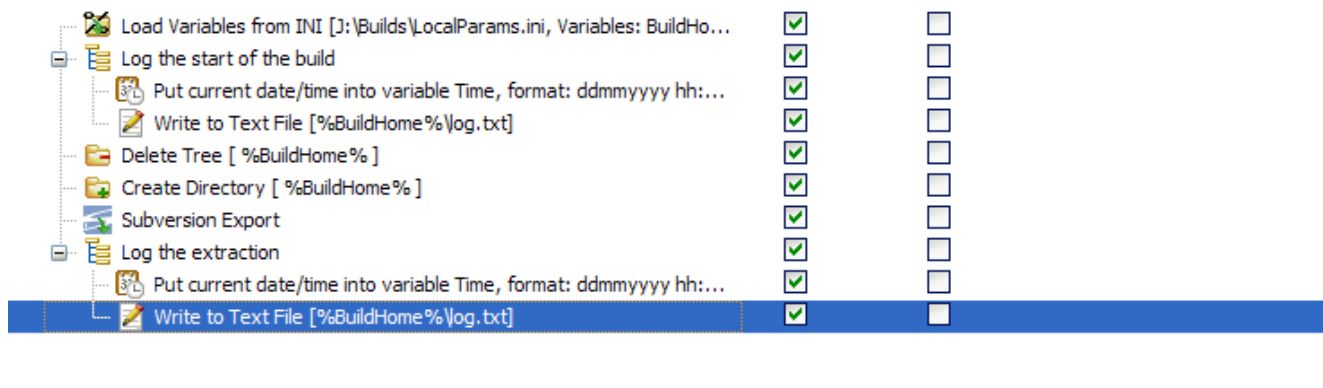
# Reusing Logic

When you have come up with a useful sequence of actions, you may want to reuse it. Here are several methods, in increasing levels of sophistication.

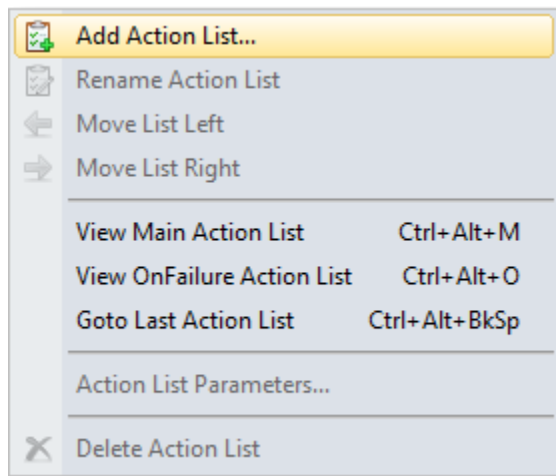
- [Targets](#)
- [External Targets](#)

## Targets

Let's take the example of a couple of actions used to log to an external log file with a date and time stamp. Before writing to the log with the [Get Date Time](#) action.



Here, the log actions have been copied. This is not ideal, as if we improve the logic later on, we'll have to edit all those actions. Instead, create a new Target, called Log:



Move the actions to the new Target. Now, create a parameter to contain the log message, by right clicking on the Target title.

Parameter Name	Type
Message	String

Replace the hard-coded message in the "Write to Text File" action. Target parameters behave just like normal variables.

**File Location**  
%BuildHome%

**Options**  
☐ Insert at start of file  
☒ Append to end of file  
☐ Create file if missing  
☒ Expand Variables in Content

**New Content**  
%Time%: %Me

**Variable Selection Popup:**  
Message  
Variable Type : Action List Parameter

The Target now looks like this:







Description	Enabled	Ignore Failure	Status
Change author name	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Edit XML File [XML Doc: Compl...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Remove all comments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
XML Node Iterator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
XML Delete Element/Attrib...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Save document	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Save XML Document [Comple...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Main
OnFailure
Log

The final step is to replace the original calls with **Run Target** actions.








[illegible]







The result is this:

	Load Variables from INI [J:\Builds\LocalParams.ini, Variables: BuildHome]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Run Action List [ Log ]	<input checked="" type="checkbox"/>	
	Delete Tree [ %BuildHome% ]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Create Directory [ %BuildHome% ]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Subversion Export	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Run Action List [ Log ]	<input checked="" type="checkbox"/>	

## External Targets

The next step in reusing action logic is to group these utility Targets into one project:

Description	Enabled	Ignore Failure	Status
 Change author name	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
 Edit XML File [XML Doc: CompleteBoo...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
 Remove all comments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
 XML Node Iterator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
 XML Delete Element/Attribute	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
 Save document	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
 Save XML Document [CompleteBook]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

 Main
  OnFailure
  Log
  CheckSystem
  ReadConfig
  GenerateStatusReport

You can now call these Targets from any project.