

# ActiveX Component SoftwareAG.NaturalX.Enumerator

This chapter covers the following topics:

- Purpose
  - Interface
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## Purpose

The ActiveX component `SoftwareAG.NaturalX.Enumerator` provides a general enumerator class that can be used to iterate across collections of Automation objects.

As an example, the general usage of the component in a Natural application is in the following way. A full working example is the program `UTIL04` in the library `SYSEXP.G`.

```
define data
local
l #enum handle of object
l #files handle of object
l #file handle of object
end-define
*
* First create an instance of the class SoftwareAG.NaturalX.Enumerator.
create object #enum of 'SoftwareAG.NaturalX.Enumerator.4'
if #enum eq null-handle
  escape routine
end-if
*
* Have a collection of Automation objects
* in the variable #files.
* Code omitted.
* ...
*
* Attach the collection to the enumerator.
send 'Attach' to #enum with #files (ad=o)
*
* Now iterate across the collection.
send 'Next' to #enum return #file
repeat while #file ne null-handle
* Process the item.
* Code omitted.
* ...
* Get the next item.
  send 'Next' to #enum return #file
end-repeat
*
end
```

## Interface

The interface of this component, its methods and their usage are described in detail in a separate document.

The component provides the following interface:

- Interface `IEnumerator`