



Since the early 1990s XML files have been widely used for data trans between application modules and even between different systems. A XML file may contain, for instance, the results of a billing record for ϵ cellular phone customer. In such a case, it may be of high value to b able to have preset expected results and be able to compare actual X files with these.

How to do it...

Proceed with the following steps:

 From the UFT menu navigate to Design | Checkpoint | XML Checkpoint (From Resource), which will open the dialog by the same title:

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Click on the Browse button and select a file from the Open XML File dialog. In our example, we will be using a sample XML given by Microsoft with the following contents:

```
cprice>14.55c/price>
cpublish_date>1999-05-28c/publish_date>
cdescription>This book describes how to build and implement
c/book)
chook id="bk10">
cauthor/Bendrickson, Elisabethc/author>
citite>Employee !t!</ri>
cauthor/Dendrickson, Elisabethc/author>
citite>Employee !t!</ri>
cauthor/Dendrickson, Elisabethc/author>
cdescription>Capthor/Comptexc(operate)
cprice>14.95c/price>
cphilish_date>2013-03-03c/publish_date>
cdescription>Denore suprises, risks, and potentially seric
c/book>
chook id="bk108">
cauthor/Matic, Oojkoc/author>
citite>Operator=10 by Example
cprice>24.95c/price>
cpublish_date>2013-05-06c/publish_date>
cdescription>Specification by Example is an emerging practic
c/book>
chook id="bk109">
cauthor/Whittaker, James/author>
ctitie>Now Google Tests Software
cynics>16.95c/price>
cpublish_date>2012-03-26c/publish_date>
cdescription>Delyou need to get it right, too? Then, learn f
c/book>
chook id="bk10">
cauthor/Whittaker, James/author>
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ctitie>Now Cooperator=0 copution
chook id="bk111">
cauthor/Orien, rimc/author>
ctitie>Now Mooperator=0 copution
cdescription>Microsoft's NET initiative is explored in detail
c/book>
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```

At the end, click on **OK**. The **XML Checkpoint Properties** dialog will appear, as shown:



Now, for each node we will be able to define whether we wish to:

- Check the number of attributes it has (if any).
- Check the number of child elements.
- Limit our verification to a particular type of child (relevant when more than a single type is present). In our example, under the catalog root node, we only have book nodes so it does not make any difference.

When traversing the hierarchy we can view the specific values of nodes, as shown:

We can also click on the **Activate Schema Validation** button to validate the integrity of the XML document with regards to a schema (XSD), either referenced in the document or an external one:

In case our, XML is expected to be based on such a schema, this would give us a comprehensive checkpoint, which not only verifies the contents of the XML document but also its structure.

At the end of the definitions, we click on **OK**, and the following statement is inserted in Action:

```
XMLFile("catalog.xml").Check CheckPoint("catalog.xml")
```

In addition, our Object Repository now includes XMLFile as TO and a CheckFoint object of XMLFile. The XMLFile TO carries a single description property, that is, its filename, which stores its path. Of course, as with other TOs, it is possible to parameterize this property. In a similar fashion, as with the IDTable checkpoint, the CheckFoint object of XMLFile will have the properties as we defined in the XML Checkpoint Properties dialog previously.

How it works...

When invoking the Check method of XMLFile with the XML CheckPoint object, the target file is opened and checked against the data stored as expected results. Running the command yields a results report, as follows (here we have deliberately changed one value in the XML file to make the checkpoint fail):

If prompted to allow ActiveX Add-In, then approve in order to see

Captured Data. Clicking on the View XML Checkpoint Results button
in that pane will open a window titled XML Checkpoint Results:

We see that for each node there is a checkpoint summary giving details about the checks that were performed. As the tooltip shows, we can browse through our results very efficiently to drill-down and examine the lick the icon to find the next error will lead us to the lich UFT found a discrepancy between the expected and

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