

Uptrends Xml webservice manual

The Uptrends webservice

The Uptrends webservice publishes statistics data from an Uptrends account.

Calling the .NET webservice

The webservice exposes several methods. Each of these methods can be accessed at <http://www.uptrends.com/asp/xmlservice.aspx>. A formal definition of the webservice can be found at <http://www.uptrends.com/asp/xmlservice.aspx?WSDL>.

The following methods are currently available:

- **GetProbeStatusList**
This method returns status information for each probe in the Uptrends account.
- **GetAccountStatus**
This method returns basic aggregated status information for the entire Uptrends account.
- **GetReport**
This method returns historical data reports in a number of formats. These reports are all part of the regular Uptrends web reporting.

GetProbeStatusList method

This method requires the following parameters:

username: the Uptrends account ID

password: the corresponding password

The method's response contains an **UptrendsResult** structure, one for each probe in the Uptrends account. The **UptrendsResult** structure has the following fields:

Probe: the name of the probe

Status: the current status of the account. Possible values:

- **NoError:** currently there are no errors
- **Unconfirmed:** at least one unconfirmed error has been detected. Uptrends is already performing a double check.
- **Confirmed:** at least one confirmed error has been detected.

LastCheckpoint: the name of the checkpoint that was used to perform the last probe check

LastProbeCheck: date and time of the last probe check

Errors: the number of errors for this probe, during the last 24 hours

Warnings: the number of warnings for this probe, during the last 24 hours

Checks: the number of probe checks for this probe, during the last 24 hours

Totaltime: the average total time (in seconds) for this probe, during the last 24 hours

Uptime: the average uptime (as a percentage) for this probe, during the last 24 hours

LastResolveTime: the resolve time (in seconds) for this probe, during the last check.

LastConnectionTime: the connection time (in seconds) for this probe, during the last check.

LastDownloadTime: the download time (in seconds) for this probe, during the last check.

LastTotalTime: the total time (in seconds) for this probe, during the last check. This is the sum of connection time, download time and total time.

LastTotalBytes: the number of bytes for this probe, during the last check.

GetAccountStatus method

This method requires the following parameters:

username: the Uptrends account ID

password: the corresponding password

The method's response contains one **UptrendsResult** structure. The fields are described in the **GetProbeStatusList** method. The **Probe** field contains the word "All". **LastResolveTime**, **LastConnectionTime**, **LastDownloadTime**, **LastTotalTime** and **LastTotalBytes** contain data for the probe that was last checked. All other fields contain aggregated data for the entire account.

GetReport method

The method's response contains the following fields:

username: the Uptrends account ID

password: the corresponding password

reportID: the numeric ID of the requested report (see Appendix A)

startDate: the startDate of the period to report on

endDate: the endDate of the period to report on

probeName: the name of the probe to report on, when applicable, otherwise empty

probeGroupName: the name of the probe group to report on, when applicable, otherwise empty

The response of the **GetReport** method is a string which contains encoded XML, which in its turn contains the requested data. The general structure of this data is:

```
<UptrendsXml>
  <Report>
    <Parameters>
      <Title>Uptime % in period</Title>
      <AccountID>demoaccount</AccountID>
      <StartDate>2008-08-01T00:00:00</StartDate>
      <EndDate>2008-09-09T00:00:00</EndDate>
      <Probe>demo probe</Probe>
    </Parameters>
    <Data>
      <Row>
        <!-- Row data -->
      </Row>
      <Row>
        <!-- Row data -->
      </Row>
      ....
    </Data>
  </Report>
</UptrendsXml>
```

The **Parameters** node echoes the specified parameters of the request. The **Data** node contains **Row** nodes, which in turn contain a node for each field in the report. Each report type has its own set of fields. For example, a **Row** node in the 'Uptime% in period' report looks like the following:

```
<Row>
  <Date>01/08/2008</Date>
  <UptimePercentage>100.00</UptimePercentage>
```

```
<UptimeObjective>99.50</UptimeObjective>
<TotalTime>0.38</TotalTime>
<TotalTimeObjective>2.00</TotalTimeObjective>
</Row>
```

Caching

After you have requested a report, we strongly suggest that you cache the results on your own server or store them in a database. If you ever need the data again (for example to generate reports or show the results in a web page), you will be able to access the data quicker and do post processing or data mining on the data.

Currently we allow 2,000 web service requests per day for one Uptrends account. Please contact us if you have special requirements.

Appendix A: Report IDs

Currently, the Uptrends webservice supports the following reports. They correspond to the reports with the same name that are available in the Uptrends web reporting environment.

Report	ReportID	Required probe / probe group parameter
Uptime % in period	7	Probe
Errors in period	8	Probe
Error types in period	9	Probe
Total time in period	10	Probe
Total time by checkpoint	11	Probe
Total time by hour of day	12	Probe
Total time by day of week	13	Probe
Errors by probe	14	None
Error types	15	None
Total time	16	Probe group

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