
Notes for Sirius Mods Interim Release 7.4

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CHAPTER 1 ***Introduction***

This document lists the enhancements and other changes contained in *Sirius Mods* version 7.4, which was released in February, 2009. The previous version of the *Sirius Mods*, 7.3, was available in October, 2008.

Because 7.4 is an intermediate version, all customers running this version are expected to upgrade to the next general release of *Sirius Mods* as soon as possible.

The following sections describe changes in the *Janus SOAP Xml API* in this release.

2.1 Support 1.1 as XML version

The value of an XmlDocument's `Version` property may now be set to '1.1':

```
%doc:Version = '1.1'
```

(The above change was introduced as part of maintenance in version 7.3 of the *Sirius Mods*.)

Also, 1.1 is accepted in the XML declaration in a deserialization operation:

```
%doc:LoadXml('<?xml version="1.1"?><docFoo/>')
```

2.2 The ClientCertificate method

This new shared method is a constructor that produces an XmlDocument object that contains detailed information from a client certificate received by a Janus web server, server socket, or Telnet server. The XmlDocument that is returned includes details about the client and about the certificate's signer.

The ClientCertificate method provides much of the functionality of functions in *Janus Web Server* (`$Web_Cert_Info` and `$Web_Cert_Levels`) and *Janus Sockets* (`$Sock_Cert_Info` and `$Sock_Cert_Levels`).

The ClientCertificate syntax is:

```
%doc = [% (XmlDoc):]ClientCertificate (
    [AttributeNames=bool] -
    [, AttributeValues=bool] )
```

The AttributeNames and AttributeValues arguments indicate how to display certificate detail names and values within their XML document elements: as the element name, or as the value of a "name" or "value" attribute. For example, for the certificate detail named "locality":

- Element-name format is:

```
<locality>Cambridge</locality>
```

- Attribute format is:

```
<info name="locality" value="Cambridge"/>
```

The default value for both is `False`, which produces element-name format.

The `XmlDoc` object produced by the `ClientCertificate` method is `Null` if:

- The method is invoked in a scenario where there is no client certificate.
- The method is invoked when you are not logged in on a Janus server port.
- The Janus port is not defined to use SSL.
- The client did not provide a certificate.

The information returned by this method is most useful in the server port's JANUS DEFINE NEWSDESCMD processing. The information method can be used anywhere: no information in the client certificate is considered "secure."

The following request prints the contents of a client certificate:

```
Begin
%doc Object XmlDoc
%doc = ClientCertificate
%doc:Print
End
```

A sample result follows:

```
<subject>
  <commonName>USER</commonName>
  <organizationalUnit>Local Services</organizationalUnit>
  <locality>Cambridge</locality>
  <state>MA</state>
  <country>US</country>
  <validityDate>20090125050000</validityDate>
  <validityTime>20090125050000</validityTime>
  <expirationDate>20100125050000</expirationDate>
  <expirationTime>20100125050000</expirationTime>
  <serialNumber>016437FF8A</serialNumber>
  <privateKeyLength>1024</privateKeyLength>
  <md5hash>7291D676CF47AF9578C94EEF029FA7BF</md5hash>
  <shaHash>8C969F3CCD1997082924EFD386B144917EF07F24</shaHash>
  <permanentKeyLength>1024</permanentKeyLength>
  <temporaryKeyLength>0</temporaryKeyLength>
  <issuer>
    <commonName>sis.sirius-software.com</commonName>
    <organizationalUnit>Local-Systems</organizationalUnit>
    <locality>Cambridge</locality>
```

```
<state>Massachusetts</state>
<country>USA</country>
<validityDate>20081210123238</validityDate>
<validityTime>20081210123238</validityTime>
<expirationDate>20110907123238</expirationDate>
<expirationTime>20110907123238</expirationTime>
<serialNumber>0160B99097</serialNumber>
<privateKeyLength>512</privateKeyLength>
<md5hash>681A76D6208C594D5BB08E816324E92B</md5hash>
<shaHash>513085FC5F652EDAC8759C4921842FF8B38ABEA2</shaHash>
<permanentKeyLength>512</permanentKeyLength>
<temporaryKeyLength>0</temporaryKeyLength>
<issuer>
  <commonName>sis.sirius-software.com</commonName>
  <organizationalUnit>Local-Systems</organizationalUnit>
  <locality>Cambridge</locality>
  <state>Massachusetts</state>
  <country>USA</country>
  <validityDate>20081210123238</validityDate>
  <validityTime>20081210123238</validityTime>
  <expirationDate>20110907123238</expirationDate>
  <expirationTime>20110907123238</expirationTime>
  <serialNumber>0160B99097</serialNumber>
  <privateKeyLength>512</privateKeyLength>
  <md5hash>681A76D6208C594D5BB08E816324E92B</md5hash>
  <shaHash>513085FC5F652EDAC8759C4921842FF8B38ABEA2</shaHash>
  <permanentKeyLength>512</permanentKeyLength>
  <temporaryKeyLength>0</temporaryKeyLength>
</issuer>
</issuer>
</subject>
```


The following features are new or changed in *Janus Web Server*.

3.1 TextUtf8 option on \$Web_*_Content functions

A new option has been added to the `$Web_File_Content`, `$Web_Input_Content`, and `$Web_Output_Content` functions. The name of this option is `TextUtf8` and it is mutually exclusive with the `Text` and `Binary` options.

The `TextUtf8` option causes `$Web_Input_Content` to first convert each two-byte UTF-8 sequence to the corresponding ASCII character, which is then translated to EBCDIC using the translation table in effect for the *Janus Web Server* connection.

For example:

```
%string = $Web_Input_Content('TextUtf8')
```

This feature was also provided as part of maintenance to version 7.3 of *Janus Web Server*.

This chapter lists any compatibility issues with prior versions of the *Sirius Mods* and any bugs which have been fixed in this version of the *Sirius Mods* but had not, as of the date of this release, been fixed in the immediately prior version (7.3).

In general, backward incompatibility means that an operation which was previously performed without any indication of error, now operates, given the same inputs and conditions, in a different manner. We may not list as backwards incompatibilities those cases in which the previous behaviour, although not indicating an error, was “clearly and obviously” incorrect, and which are introduced as normal bug fixes (whether or not they had been fixed with previous maintenance).

4.1 Backwards incompatibilities

Backwards incompatibilities are described per product in the following sections.

4.1.1 Janus SOAPXml API

The following backwards compatibility issues have been introduced in the *Janus SOAP XML API*.

4.1.1.1 Middle dot (U+00B7) not allowed as start of XML name

In version 7.3 of *Janus SOAP*, the “middle dot” character (which is Unicode code point U+00B7) was allowed to be the first character of an XML name. The XML standard does not allow this. U+00B7 was not allowed as the first character of an XML name in any versions of *Janus SOAP* prior to 7.3.

In version 7.4 of *Janus SOAP*, U+00B7 is not allowed as the first character of an XML local name or prefix (it is allowed for other characters in an XML name).

4.2 Fixes in Sirius Mods 7.4 but not in 7.3

This section lists fixes to functionality existing in the *Sirius Mods* version 7.3 but which, due to the absence of customer problems, have not, as of the date of the release, been fixed in that version.

- There are no fixes in *Sirius Mods* 7.4 that are not available in previous versions.

4.3 Version corequisites

This section lists any restrictions on usage of various products (including *Sirius Mods* itself) that will be imposed by use of version 7.4 of *Sirius Mods*.

- There are no corequisites associated with *Sirius Mods* 7.4.