

networkdiagnostics

ON THIS PAGE

- [Object Creation](#)
- [NetworkDiagnostics](#)
 - [testInternetConnectivity\(\)](#)
 - [testNetworkInterface\(\)](#)
- [InterfaceTestResult](#)
- [Log](#)
- [Example](#)

The *networkdiagnostics* object allows you to retrieve information about network interfaces and Internet connectivity.

networkdiagnostics IDL

```
[
  GarbageCollected
] interface NetworkDiagnostics {
  Promise <InterfaceTestResult> testInternetConnectivity();
  Promise <InterfaceTestResult> testNetworkInterface(DOMString
interface_name);
};

interface InterfaceTestResult {
  DOMString diagnosis;
  bool ok;
  LogList log;
};

interface Log {
  DOMString name;
  DOMString pass;
  DOMString result;
  DOMStringList info;
};
```

Object Creation

To create a *networkdiagnostics* object, first load the `brightsign/networkdiagnostics` module using the `Require()` method. Then create an instance of the *networkdiagnostics* class.

```
var NetworkDiagnosticsClass = require("@brightsign/networkdiagnostics");
var networkDiag = new NetworkDiagnosticsClass();
```

NetworkDiagnostics

Use this interface to retrieve diagnostic information.

testInternetConnectivity()

```
Promise <InterfaceTestResult> testInternetConnectivity()
```

Performs various tests on the Internet connection (via any available network interface) to determine whether it appears to be working correctly. This method returns an `InterfaceTestResult` interface when diagnostics are complete.

testNetworkInterface()

```
Promise <InterfaceTestResult> testNetworkInterface(DOMString  
interface_name)
```

Performs tests on the specified network interface to determine whether it appears to be working correctly. Interface name values are the same as those used with the `roNetworkConfiguration` object. This method returns an `InterfaceTestResult` interface when diagnostics are complete.

InterfaceTestResult

This interface contains diagnostic results:

- `[bool] ok`: A Boolean flag indicating whether the network interface or Internet connection passed diagnostic tests
- `[DOMString] diagnosis`: A single-line diagnosis of the first problem identified with the network interface or Internet connection
- `[Log] log`: A Log object containing diagnostic information related to the network interface or Internet connection

Log

This interface contains a list of diagnostic logs. Each log contains the following attributes:

- `[DOMString] name`: A description of the diagnostic
- `[bool] pass`: A Boolean flag indicating whether the diagnostic was successful
- `[DOMString] result`: A description of the diagnostic result
- `[DOMStringList] info`: A string list containing diagnostic data

Example

The following script creates a `networkdiagnostics` instance and logs Internet diagnostic data to the console:

```
var NetworkDiagnosticsClass = require("@brightsign/networkdiagnostics");  
var nd = new NetworkDiagnosticsClass();  
nd.testInternetConnectivity().then(  
    function(data) {  
        console.log(JSON.stringify(data));  
    })  
.catch(  
    function(data) {  
        console.log(JSON.stringify(data));  
    });
```