1.1. Introduction

A request to following URL

`<IP address of the BNI fieldbus module>/ports.jsn`

with a browser or an application delivers a JSON object that contains data of the available IO-Link ports.

You can request this file cyclically, but the time between request and response is usually more than 300ms.

All JSON values of this interface are strings. It is possible that a value is not available in the BNI fieldbus gateway. In this case the value has the content " `(none)` ".

1.2. Interface

Object: `interface`

Key	Description of value	Example value
version	Version, changes if object structure changes in later releases.	"1.0"
description	Simple description string, indicating the purpose of this file	"Information about the IO-Link ports of this gateway"

1.3. Ports

Object: `ports`

Most of the parameters are directly taken out of the device. They are described in the IO-Link Interface and System Specification, Version 1.1.2, July 2013.

Key	Description of value	Example value
`vendorName`	IOL Spec., Table B.8, Index 0x10 (16)	`"BALLUFF"`
`vendorText`	IOL Spec., Table B.8, Index 0x11 (17)	`"www.balluff.com"`
`productName`	IOL Spec., Table B.8, Index 0x12 (18)	`"BNI IOL-802-000-Z036"`
`productId`	IOL Spec., Table B.8, Index 0x13 (19)	`"BNI0072"`
`productText`	IOL Spec., Table B.8, Index 0x14 (20)	`"Smart Light 5 segment"`
`serialNumber`	IOL Spec., Table B.8, Index 0x15 (21)	`""`
`hardwareRevision`	IOL Spec., Table B.8, Index 0x16 (22)	`"1"`
`firmwareRevision`	IOL Spec., Table B.8, Index 0x17 (23)	`"1.0 Build: 2013/01/17 11:30:41 Rev:1079 IOL: 961"`
`applicationSpecificTag`	IOL Spec., Table B.8, Index 0x18 (24)	`"01 33"`
`event`	IOL Spec., Table D.1	`"0x8CA1"`
`eventFlag`	IOL Spec., A.6.4	`"0x50"`
`processInputs`	IOL Spec., Table B.8, Index 0x28 (40)	`"00 00 00 … 00"`
`processOutputs`	IOL Spec., Table B.8, Index 0x29 (41)	`"44 04 00 01 … 00"`
`directParameters`	IOL Spec., Table B.1	`"99 32 32 1B 11 00 82 03 78 05 0A 01 00 00 00 00"`
`status`	Proprietary status code of the BNI fieldbus gateway.	`"87FF"` The first digit "8" means, that all device identification parameters were read out.
`dsContentVendorId`	IOL Spec., Table F.2	`"00 00"`
`dsContentDeviceId`	IOL Spec., Table F.2	`"00 00 00"`
`dsContentChecksum`	IOL Spec., Table F.2	`"00 00 00 00"`
`dsContentBuffer`	IOL Spec., Table F.1	`"(none)"`