Bulletin 160 EDS Files

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This document discusses the relationship of Bulletin 160 drive firmware revisions and Bulletin 160-DN1 communication module firmware revisions and how they relate to which version of EDS file is needed. The goal of this document is to clear up any issues about which EDS files are used with a specific model of the Bulletin 160 drive and DN1 communication interface.

Note: the various drive and communication module firmware revisions will be referred to as FRN numbers.

What is an EDS File ?

Electronic Data Sheet (EDS) files are specially formatted ASCII files that provide all of the information necessary for a configuration tool such as the DeviceNet Manager, to access and alter the parameters of a device. The EDS file contains information on the number of parameters in a device and how these parameters are grouped together. The EDS file also contains information about each parameter contained in the file, such as parameter min, max, and default values, parameter data format and scaling, and the parameter name and units.

Why do issues arise with the Bulletin 160 and EDS files ?

There are two reasons for this:

1. The Bulletin 160 is in a group of DeviceNet products which are not able to store the EDS file within the device itself and produce EDS files over DeviceNet. Therefore, when using tools such as DeviceNet Manager the user must supply the right EDS file to such tools.

2. Whenever the *major version number* of a product is changed, a NEW EDS file is needed for that product. (Example: when the Bulletin 160 went from version 4.07 to version 5.01 there was a new EDS file needed.)

What determines the right EDS file and where do I get it?

When a major revision of the Bulletin 160 is changed, new EDS files are released. The new EDS files can be obtained on Floppy Disks (Catalog Number (160-EDS) or over the Internet on the following web sites:

www.ab.com (under Drive, EDS files)
www.odva.org (under EDS files)

Structure of the 160-EDS disk

The EDS files are stored on the disk in a directory structure based on the following information about the product:

- the vendor of the product
- the type of the product
- a number associated with a specific product (product code) and
- the major FRN revision of the product.

Tools like the DeviceNet Manager follow this same directory structure when installing new EDS files. The following is example of a typical directory structure for a Bulletin 160 EDS file:

c:\dnetmgr\eds\1.vnd\2.typ\3.cod\5.eds

c:\dnetmgr\eds = is the default directory for the DeviceNet Manager EDS files

1.vnd = *vnd* is short for vender and vender 1 is Allen Bradley

2.typ = *typ* is short for product type and product type 2 is AC Drives

3.cod = *cod* is short for product code and 3 is the product code for a Bul 160 preset drive

The following product codes are valid for the Bulletin 160:

1.cod = Analog Drive, Standard SSC keypad interface, 160-DN1 with FRN 1.2
2.cod = Analog Drive, ODVA parameter interface, 160-DN1 with FRN 1.2
3.cod = Preset Drive, Standard SSC keypad interface, 160-DN1 with FRN 1.2
4.cod = Preset Drive, ODVA parameter interface, 160-DN1 with FRN 1.2

132.cod = Analog Drive, Standard SSC keypad interface,160-DN1 with FRN 2.0
133.cod = Analog Drive, ODVA parameter interface, 160-DN1 with FRN 2.0
134.cod = Preset Drive, Standard SSC keypad interface, 160-DN1 with FRN 2.0
135.cod = Preset Drive, ODVA parameter interface, 160-DN1 with FRN 2.0

Note 1: Product codes 132-135 are new for the 160-DN1 firmware version 2.0 and were needed since new parameters were added to the DeviceNet Module itself.

Note 2: The “Standard SSC keypad interface” is the factory default interface. To use the “ODVA parameter interface” from the DeviceNet Manager, the user must first use the “Standard SSC keypad interface” to change **P15-[Interface Select]** to ODVA interface and then do another “WHO” command to see the Bulletin 160 with the ODVA parameter interface.

5.eds = is the EDS file for the Bulletin 160 with FRN 5.00 to 5.99.
the following EDS files have been released thus far:

4.eds = for Bulletin 160 FRN 4.04 & 4.07
5.eds = for Bulletin 160 FRN 5.00 & 5.01
6.eds = for Bulletin 160 FRN 6.00

Which Version of 160-EDS disk do I need ?

Since the FRN numbers of the Bulletin 160 drive and the 160-DN1 communication interface are independent from the version number of the 160-EDS it may be difficult to know which combinations of Bulletin 160 drives and 160-DN1's are supported on a giving version of 160-EDS disks. The following chart indicates which FRN version of Bulletin 160 drive and DeviceNet Module (160-DN1) are supported for each version of 160-EDS disk:

160-EDS disks Version Number	Bulletin 160 FRN 4.04		Bulletin 160 FRN 4.07		Bulletin 160 FRN 5.01		Bulletin 160 FRN 6.00	
	160-DN1 FRN 1.2	160-DN1 FRN 2.0	160-DN1 FRN 1.2	160-DN1 FRN 2.0	160-DN1 FRN 1.2	160-DN1 FRN 2.0	160-DN1 FRN 1.2	160-DN1 FRN 2.0
Version 1.1	YES	NO	YES	NO	NO	NO	NO	NO
Version 1.2	YES	NO	YES	NO	YES	NO	NO	NO
Version 2.0	YES	YES	YES	YES	YES	YES	YES	YES

160-EDS Disks

The follow section describes which EDS files are contained on each version of the 160-EDS disk:

160-EDS Version 1.1

There are 4 EDS files contained in a directory structure on this disk. **These four files are intended for use with 160-DN1 DeviceNet Modules with FRN 1.2 (only)**

Product Code	Controller Type	Module Configuration (Parameter Interface)	EDS File
1	Analog Signal Follower	160 SSC Interface	2.typ/1.cod/4.eds
2	Analog Signal Follower	ODVA Drive Profile	2.typ/2.cod/4.eds
3	Preset Speed Unit	160 SSC Interface	2.typ/3.cod/4.eds
4	Preset Speed Unit	ODVA Drive Profile	2.typ/4.cod/4.eds

160-EDS Version 1.2

There are 8 EDS files contained in a directory structure on this disk. **These eight files are intended for use with 160-DN1 DeviceNet Module with FRN 1.2 (only)**

Product Code	Controller Type	Module Configuration (Parameter Interface)	EDS File
1	Analog Signal Follower	160 SSC Interface	2.typ/1.cod/4.eds, 5.eds
2	Analog Signal Follower	ODVA Drive Profile	2.typ/2.cod/4.eds, 5.eds
3	Preset Speed Unit	160 SSC Interface	2.typ/3.cod/4.eds, 5.eds
4	Preset Speed Unit	ODVA Drive Profile	2.typ/4.cod/4.eds, 5.eds

160-EDS Version 2.0

There are 24 EDS files contained in a directory structure on this disk. **These 24 files are intended for use with 160-DN1 DeviceNet Module Versions with FRN 1.2 and 2.0**

EDS files for DeviceNet Module Version 2.0

Product Code	Controller Type	Module Configuration (Parameter Interface)	EDS File
132	Analog Signal Follower	160 SSC Interface	2.typ/1.cod/4.eds, 5.eds, or 6.eds
133	Analog Signal Follower	ODVA Drive Profile	2.typ/2.cod/4.eds, 5.eds, or 6.eds
134	Preset Speed Unit	160 SSC Interface	2.typ/3.cod/4.eds, 5.eds, or 6.eds
135	Preset Speed Unit	ODVA Drive Profile	2.typ/4.cod/4.eds, 5.eds, or 6.eds

EDS files for DeviceNet Module Version 1.2

Product Code	Controller Type	Module Configuration (Parameter Interface)	EDS File
1	Analog Signal Follower	160 SSC Interface	2.typ/1.cod/4.eds, 5.eds, or 6.eds
2	Analog Signal Follower	ODVA Drive Profile	2.typ/2.cod/4.eds, 5.eds, or 6.eds
3	Preset Speed Unit	160 SSC Interface	2.typ/3.cod/4.eds, 5.eds, or 6.eds
4	Preset Speed Unit	ODVA Drive Profile	2.typ/4.cod/4.eds, 5.eds, or 6.eds