



Release Notes for Cisco DVB INA2320 Interactive Network Adapter for Release 2.1A

April 26, 2000

These release notes for the Cisco DVB INA2320 Interactive Network Adapter support INA2320 Software Release 2.1A. These release notes are updated as needed to describe new features, memory requirements, hardware support, and changes to the microcode, configuration software, and related documents.

For a list of caveats that apply to Release 2.1A, see the “Open Caveats—Release 2.1A” section on page 3.

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Introduction

The Cisco DVB INA2320 Interactive Network Adapter is the headend unit controlling the bidirectional broadband data communication over the hybrid fibre coaxial (HFC) network to the customer premises equipment (CPE) that is connected to the HFC network. The Cisco DVB INA2320 is based on the open Digital Video Broadcast (DVB) standards.



The Cisco DVB INA2320 interfaces to DVB-compliant CPE and provides the link to the backbone network toward the Internet Protocol (IP) hosts using an Ethernet interface.

You can configure and monitor the Cisco DVB INA2320 using the Cable DVB/DAVIC Management Program; this program is based on Simple Network Management Protocol (SNMP) standard.

The Cisco DVB INA2320 complies with the DVB standard ETS 300800 and the SNMP v.2c.

System Requirements

Hardware Supported

The hardware components supported in this release include:

- INA2320 Chassis
- CPU-LAN module
- Modulator module (1 downstream channel)
- Demodulator module 1 and 2 (4 upstream channels per module)
- Power Supply Unit
- Upconverter module 1 and 2
- Power connector

EMC Considerations

Unless properly installed, the INA2320 demodulators are sensitive to RF signals induced on the cables at the upstream frequencies.

To ensure the immunity of the INA2320 Demodulator module all cables connected to the INA must be of a high quality with double screening or solid outer conductor. RG216 cables or bamboo cables are recommended.

Signal couplers should be located as close to the INA2320 as possible, preferably in the same rack section, and connected to the INA2320 by the shortest possible sections of cable.

The CPU-LAN, the Modulator and Demodulator modules are equipped with contact springs at the front panels. When replacing the modules, it is important that the springs remain undamaged. Even small openings in the front panel make the INA2320 sensitive to Electrostatic Discharge.

Safety

The Cisco DVB INA2320 must be mounted with an air separation plate beneath it to meet the safety requirements. It is mandatory that the front edge of the air separation plate is equipped with a device collecting particles coming from the INA2320 mounted above the air separation plate.

For further instructions how to mount forced cooling devices and how to ventilate the Cisco DVB INA2320 correctly see the Cisco DVB INA2320 Installation and Configuration Guide.

Forced Cooling

To meet the temperature requirements the INA2320 must be mounted with a fan tray above it to ensure forced cooling of the unit.



Note

Make sure the fan tray secures air flow on all modules in the INA2320, that is across the full width of the Cisco DVB INA2320.

New and Changed Information

Performance Limitations

The downstream FTP performance of the INA2320 in release 2.1A has been measured to approximately 16 Mbit/second (payload data). In the future release the performance is expected to be closer to the target of approximately 30 Mbps per downstream channel.

The upstream FTP performance of the INA2320 in release 2.1A has been measured to approximately 1.25 Mbit/second per upstream (payload data). In the future release the performance is expected to be closer to the target of 1.75 Mbps per upstream channel.

Caveats

Open Caveats—Release 2.1A

Cisco INA2320 Interactive Network Adapter

- CSCdr26390

Spectral inversion has no effect in the release 2.1A.

- CSCdr27136

Some MIB-II variables cannot be set from SNMP. These MIB variables are defined as write variables in the MIB file, but they cannot be changed:

- sysContact
- sysName
- sysLocation
- ipForwarding
- ipDefaultTTL
- snmpEnableAuthenTraps

- CSCdr29027

The software path should not contain special characters. If these characters are used the INA2320 will ignore the set and keep the previous value.

- CSCdr30145

When the INA is set to the default settings, the FLASH image is removed.

Work-around: Boot the INA2320 from an FTP server as described in the Installation and Configuration Guide.

Documentation Update

Cable DVB/DAVIC Management Program

The following additions have been made to the management program. They are not described in the document "Cisco DVB Interactive Network Adapter INA2320 Installation and Configuration Guide".

Mac Section

Round Trip Delay

Use this field to add an additional round trip delay for long distance networks. The default value is 0. Active after INA Reboot.

IP Section

DHCP Server Address

This field is used as a DHCP helper address, that allows the DHCP server to be placed in a subnet different than the subnet on the Ethernet side of the INA2320. The default value is 0.0.0.0, which indicates that no DHCP helper address is used.

DHCP Backup Server Address

This field is used when there is a backup DHCP server in the network. The default value is 0.0.0.0, that indicates that no DHCP Backup server is used.



Note

This field is only used if the DHCP Server Address is different from 0.0.0.0.

Related Documentation

Platform-Specific Documents

These documents are available for the Cisco DVB INA2320 Interactive Network Adapter on CCO:

- *Cisco DVB INA2320 Installation and Configuration Guide*

Obtaining Documentation

World Wide Web

You can access the most current Cisco documentation on the World Wide Web at <http://www.cisco.com>, <http://www-china.cisco.com>, or <http://www-europe.cisco.com>.

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