

Application Note

A Guide to RoHS Compliance at Dialogic

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Scope

This document provides information about RoHS compliance for Dialogic® hardware products.

What Is RoHS?

The Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) is a European Union (EU) directive whose purpose is to approximate the laws of the Member States of the EU on restriction of the use of certain hazardous substances in electrical and electronic equipment. Adopted in February of 2003, RoHS came into force on July 1, 2006 within the EU.

Other countries have been working on their own variations of RoHS, and some countries have their own standards. China implemented its RoHS variation in March of 2007 and Korea in January of 2008. Other countries are also moving forward with similar legislation, including the United States, which is currently evaluating HR2420 “Environmental Design of Electrical Equipment (EDEE) Act.”

The RoHS directive and the other country-specific variations aim to reduce the overall environmental impact of electrical and electronic equipment by making producers more responsible for the downstream impact of the products they design, manufacture, and assemble.

Identifying Compliant Dialogic® Products

All shipping Dialogic hardware products are RoHS compliant, except for the Dialogic® DTX-600 Compression Gateway.

Some Dialogic hardware products use exemptions permitted under the EU RoHS directive, including Exemption 7b, which pertains to “lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission as well as network management for telecommunications.” The following Dialogic® products make use of this exemption:

- Dialogic® BorderNet™ 500 Gateways
- Dialogic® CG 6060 Series Media Boards
- Dialogic® CG 6565 PCI Media Boards
- Dialogic® Converged Services Platforms (CSP)
- Dialogic® I-Gate® 4000 EDGE Media Gateway
- Dialogic® I-Gate® 4000 PRO Media Gateway
- Dialogic® TX 4000 Series SS7 Boards
- Dialogic® Vision™ CX Video Gateway
- Dialogic® Vision™ VX Integrated Media Platform

Some Dialogic hardware products have a “W” in their product names and/or product codes to identify them as using Exemption 7b. These products include:

- Dialogic® 1000 Media Gateways
- Dialogic® HMP Interface Boards (DNI Boards)
- Dialogic® Digital Signaling Interface (DSI) Components
- Dialogic® boards with JCT and DM3 architecture

Here are some examples:

- DNI1200TEPHMP**W**
- DMV600BTEP**W**NLK
- D120JCTLS**W**
- D4PCIUF**W**EU
- DMIP241T1**W**
- IPT6720**W**
- DISI24**W**
- HDSI1200PCI**W**
- SS7HDPD4TE**W**
- DMG1004LS**W**

All other currently shipping Dialogic hardware products do not make use of the Exemption 7b. These products include:

- Dialogic® Blue™ OneSpan-24/30-S-LP Telephony Board
- Dialogic® BorderNet™ 3000 Session Border Controller
- Dialogic® Brooktrout® TR1034 Fax Boards
- Dialogic® Brooktrout® TruFax® Fax Boards
- Dialogic® CG 6565C CompactPCI Media Boards
- Dialogic® CG 6565E PCI Express Media Boards
- Dialogic® Diva® Media Boards
- Dialogic® DNI2410AMCTEHMP Digital Network Interface Board
- Dialogic® Eiconcard™ Serial Protocol Adapters
- Dialogic® I-Gate® 4000 Session Bandwidth Optimizer Backhaul
- Dialogic® I-Gate® 4000 Session Bandwidth Optimizer Core
- Dialogic® I-Gate® 4000 SIP Gateway
- Dialogic® Integrated Media Gateways (IMG)
- Dialogic® 4000 Media Gateway Series
- Dialogic® Multi-Services Platform (MSP)
- Dialogic® TX 5000E PCI Express SS7 Boards
- Dialogic® Vision 1000 Video Gateway
- Dialogic® Vision 1000 Programmable Media Platform

Some Dialogic hardware products have a “Q” in their product names and/or product codes to identify them as RoHS compliant without the use of Exemption 7b. These products include:

- Dialogic® 2000 Media Gateways
- Dialogic® HMP Interface Boards (DNI Boards)
- Dialogic® Digital Signaling Interface (DSI) Components
- Dialogic® boards with JCT and DM3 architecture

Here are some examples:

- DNI1210TEPEHMPQ
- DMV1200BTEPEQ
- SS7MDL440Q
- DMG2120DTIQ

Every effort has been made to provide correct and complete information in this document. If you have questions or concerns, please contact your local Dialogic sales representative. You can find local Dialogic contact information at www.dialogic.com/contact.

Appendix A. Definition and Declaration

RoHS Definition

The RoHS directive restricts the use of six substances in electrical and electronic equipment:

- Cadmium (Cd)
- Hexavalent chromium (Cr [VI])
- Lead (Pb)
- Mercury (Hg)
- Polybrominated biphenyls (PBB)
- Polybrominated diphenyl ethers (PBDE)

Quantity limit of 0.1% by mass (1000 PPM) of homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE)

Quantity limit of 0.01% by mass (100 PPM) of homogeneous material for: Cadmium

Based on Dialogic's understanding of the RoHS requirements, restricted substances are either (1) below all applicable substance thresholds as defined by the EU or (2) an approved exemption applies. (**Note:** Some RoHS implementation details are not fully defined and may change.)

Although not formally adopted by the EU Commission or by any recognized standards organization, RoHS 5/6 and RoHS 6/6 are abbreviations commonly used in the industry to designate components or products that comply with the RoHS directive in the following manner:

- **RoHS 5/6** — Used to identify products or components that meet substance limits with Exemption 7b, with or without other exemptions
- **RoHS 6/6** — Used to identify products or components that meet substance limits without use of Exemption 7b, with or without other exemptions

RoHS Declaration

For more information about RoHS, refer to the document at the following link which includes frequently asked questions and answers about the RoHS directive: http://ec.europa.eu/environment/waste/pdf/faq_weee.pdf

Dialogic has systems in place to verify conformance with all applicable environmental requirements and to the best of Dialogic's knowledge the information in this application note is true and correct.

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