



System Release 5.1.1 for Windows

System Release 5.1.1 for Windows* (SR 5.1.1) includes supports for these Intel® Dialogic® products.

- Intel® Dialogic® DM/V Voice Series
- Intel® Dialogic® Integrated Products
- Intel® Dialogic® Integrated Station Interface Boards
- Intel® Dialogic® HiZ Boards
- Intel® NetStructure™ HSDI Platform

All SR 5.1 supported products and features are also supported in SR 5.1.1. Additional details are available in the SR 5.1.1 for Windows* release notes located on the Intel® Dialogic® product support Web site at <http://developer.intel.com/design/telecom/support>.

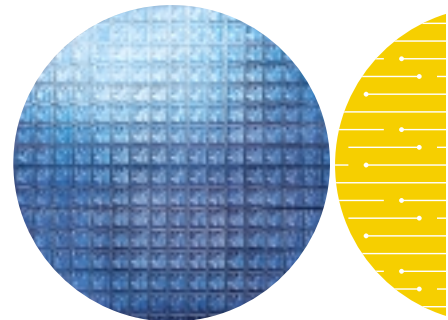
Features in System Release 5.1.1

- Call logging
- Conferencing
- Continuous speech processing
- Dialogic integrated series
- Enhanced IP Link
- Fax
- High availability
- High-density station interface
- Media processing

Call Logging

Call logging capabilities with high-impedance interfaces for non-intrusive line tap are provided through the call logging library for ISDN protocols to capture calling and called party information. Digital high-impedance voice products provide the ability to

- Monitor trunk signaling and report results to an application
- Determine when a call has been established
- Digitally compress and record voice signals
- Detect dual-tone multifrequency (DTMF) signals
- Record both sides on a conversation (transaction record)



These products include

- Intel® Dialogic® DM/V480-2T1-PCI-HiZ (Call logging)
- Intel® Dialogic® DM/V480A-2T1 (PCI/CompactPCI*)
- Intel® Dialogic® DM/V600-2E1-PCI-HiZ (Call logging)
- Intel® Dialogic® DM/V600A-2E1 (PCI/CompactPCI)
- Intel® Dialogic® DM/V960A-4T1 (PCI/CompactPCI)
- Intel® Dialogic® DM/V1200A-4E1 (PCI/CompactPCI)
- Intel® Dialogic® DM/V2400A (PCI/CompactPCI)

Conferencing

The Intel Dialogic DM/V Voice Series and resource boards can support up to 120 channels of conferencing in a single slot. This enables large size conferences (1000+) for broadcast calls where most of the callers are in listen-only mode.

Continuous Speech Processing

Continuous speech processing is available on a wide range of Intel Dialogic boards, providing support from four to 120 channels in a single slot. Continuous speech processing features include

- Full-duplex operation
- High-performance echo cancellation
- Voice energy detection
- Barge-in
- Voice event signaling
- Pre-speech buffering
- Full, real-time support for host-based automatic speech recognition (ASR) applications

Intel® Dialogic® Integrated Series

The Intel Dialogic Integrated Series is a family of DM3-based products designed as integrated solutions with both media resources and network and/or station interfaces available on a single PCI board.

Features supported include

- Four analog loop start interfaces
- Eight analog loop start station interfaces
- Dedicated call control including Caller ID detection and MWI transmission
- V.17 fax support on two shared channels

Enhanced IP Link

Several new IP Link boards are supported in SR 5.1.1 along with new capabilities across the IP Link family.

These new features include

- R4 and Global Call application programming interfaces (APIs)
- IP media resource
- IP onboard conferencing
- 100 BaseT support
- T.38 UDP

These hardware products are now supported.

- DM/IP241-1T1-100BT
- DM/IP301-1E1-100BT
- DM/IP481-2T1-100BT
- DM/IP481-2T1-cPCI-100BT
- DM/IP601-2E1-100BT
- DM/IP601-2E1-cPCI-100BT
- DM/IP601-cPCI-100BT

Fax

SR 5.1.1 provides support for the Intel Dialogic CPI and DM3 fax product lines, in addition to supporting the DM3 VFN family of voice, fax, and network boards.

These products support from 2 to 30 channels of fax on a single board. This lets developers build cost-effective solutions that can scale up to 240 channels per system. Boards are available that support analog, BRI, T-1, and E-1 interfaces, in addition to resource only boards. This provides developers a wide range of options. Features supported include

- Up to V.34 (33.6) kbps high-speed fax on some boards
- T.30 protocol support
- MH, MR, and MMR compression
- Error correction mode (ECM)

High Availability

SR 5.1.1 improves the availability characteristics of the Intel Dialogic boards and in particular adds the ability to

- Hot-swap in the CompactPCI form factor
- Diagnose and isolate failures
- Detect and repair firmware faults
- Recover from failures with a shortened service initialization time

High-Density Station Interfaces

High-density station interfaces (HDSIs) provide support for up to 120 analog station devices and include

- Resource sharing via the CT Bus that lets applications use a wide range of complementary technologies
- C language APIs for Windows NT* operating system
- Programmable ringing with automatic ring trip that requires no additional external circuitry
- Programmable gain that provides station volume control and enables matching line levels from different devices
- Programmable notification tones for metering time expired
- Programmable cadence for selection of ring cadence options
- Station status event detection for collection of call traffic statistics
- Unobtrusive monitoring of connections
- Battery feed to phone (termination) sets
- Downloadable front-end impedance and gain settings for connection to commercially available phones worldwide
- On-board FSK generation for the transmission of Caller ID to Class, Clip, and J-Clip type caller ID phones, as well as the ability to turn on and off message waiting indicator
- On-board DTMF detection for recognition of tones generated by phones connected to the stations
- On-board tone generation that provides PBX-like tones to the stations such as dialtone, ringback, and busy

These hardware products include

- Intel NetStructure HDSI/480 (PCI/CompactPCI) — 48 stations
- Intel NetStructure HDSI/720 (PCI/CompactPCI) — 72 stations
- Intel NetStructure HDSI/960 (PCI/CompactPCI) — 96 stations
- Intel NetStructure HDSI/1200 (PCI/CompactPCI) — 120 stations

Media Processing

The Intel Dialogic D/240SC-2T1, D/300SC-2E1, D/480SC-2T1, and D/600SC-2E1 ISA Boards; the Intel Dialogic DM/V Voice Series; and resource boards provide up to 240 channels of continuous speech processing, conferencing, or other media processing features such as

- Silence compressed record
- Message storage using G.711 μ -law or A-law pulse code modulation (PCM) or OKI adaptive differential pulse code modulation (ADPCM)
- Compressed recordings using True Speech, GSM, and G.726 low-bit rate coders
- Automatic gain control (AGC) to automatically adjust the signal level of incoming calls
- Application's ability to dynamically switch sampling rate and coding method to optimize data storage and voice quality
- Sampling rates and coding methods that are selectable on a channel-by-channel basis
- Dynamic adjustment of playback volume
- Detect DTMF to control record and play functions
- Local echo cancellation techniques to improve DTMF cut-through and talk off/play off
- Voice player and recorder resources are linked with the DTMF
- 240 channels of basic voice and up to 1200 ports in the system

Operating Systems Support

Windows NT 4.0 (SP 6a)

- Workstation
- Server

Windows 2000 (SP 1 and SP 2)

- Professional
- Server
- Advanced server

To learn more, visit our site on the World Wide Web at <http://www.intel.com>

1515 Route Ten
Parsippany, NJ 07054
Phone: 1-973-993-3000
Fax: 1-973-993-3093

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