INTERNATIONAL DATACASTING

Applications

- Digital Cinema
- Syndicated television
- News and weather
- Radio broadcast
- Financial news
- VOD distribution
- Corporate networks
- Digital Signage
- Distance learning

Features

- Modular, scalable, reliable
- Guaranteed content delivery
- Inline Forward Error Correction (FEC)
- Inline 128-bit AES encryption
- Automatic file reconciliation and retransmission of missing files
- Real-time missed packet retransmission

Datacast XD

Content Management and Distribution System

Datacast XD is the solution for delivering secure/guaranteed file-based content via multicast-enabled networks including satellite, WAN/LAN, and cable.

Datacast XD is IDC's leading edge content management and distribution software. Scalable, modular, and feature-rich, Datacast XD is proven technology with years of development and long-term deployments by some of the world's leading broadcasters.

Datacast XD provides high speed, addressable distribution of file-based content to remote client servers. The intuitive, open-standards software design allows for easy integration and operation within existing LAN, WAN, cable and/or satellite IP networks. Users can manage and distribute video, audio and data in simple or complex networks.
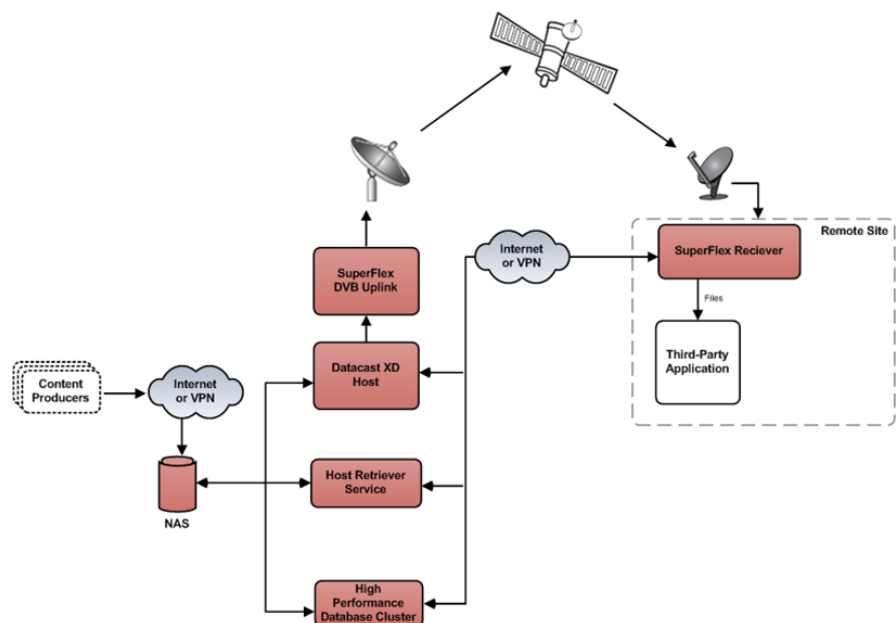
Datacast XD Client is included on all IDC SuperFlex receivers including SuperFlex Pro Data, Pro Audio, Pro Video and Pro Cinema product series.

Datacast XD is easy as 1-2-3. Content flows seamlessly from ingest to transport to receive and onwards into your network. Network operators can accept content from a variety of ingest methods such as FTP, SAMBA, or portable hard disk.

The transport of content is fast, ultra-efficient and secure. Datacast XD has a high throughput and can manage all files sizes. FEC and encryption are all done on-the-fly with Datacast XD.

Files are not simply received by a receiver. Datacast XD allows file forwarding to other devices (LAN or WAN), such as "push" content delivery or "pull" of on-demand content.

Advanced file post-processing at the remote location is provided by the DataMan Client.

TECHNICAL SPECIFICATIONS—Datacast XD

DATACAST XD HOST MODULES	DESCRIPTION
CORE MODULES	
FileBroadcast Manager	The engine that multicasts files. It features three priority/QoS queues, incorporates sophisticated Conditional Access schemes, and provides file transport inline encryption as well as variable Forward Error Correction (FEC). FileBroadcast Manager supports multiple connectivity options using a robust, efficient protocol that is highly resilient to data disruption.
Site Manager	Creates and maintains the Datacast XD Client administrative database including unique site IDs, assignment of Conditional Access rights, and the creation or updating of site specific licenses.
Schedule Manager	Enables a time-based 24x7 schedule, carousel rotation, and/or ad hoc transmission of content—files can be grouped in a "container".
Backlink Service	Uses an IP-based return channel for guaranteed data distribution. Datacast XD Clients can request retransmission of any missing file packets via the main multicast channel or via unicast directly over the backlink channel.
Database Manager	Provides automatic detailed logging of key Datacast XD Host activities (e.g. file transmissions, client confirmation) for continuous archiving of operational data. A database server interface for external reporting and billing systems is also provided.
Web Services Interface	A powerful way for users to integrate their specific system and applications requirements with the core operations of the Datacast XD system. The industry standard (Web Service interface) enables quick and easy integration.
OPTIONS	
HostRetriever Service	Works in conjunction with the XD Client for management and delivery of missing files. This service is independent of the Backlink Service and requires a TCP/IP-based return channel to the Datacast XD Host to function. This is also the mechanism that enables file delivery over hybrid multicast/unicast (satellite/terrestrial) networks.

FEATURES	DATACAST XD ENTERPRISE	DATACAST XD PRO
Multicast File Delivery	Up to 25 Mb/s	Up to 100 Mb/s
Number of Sites	Up to 1,000	Up to 50,000
File Delivery Confirmations	Yes	Yes
Forward Error Correction	Yes	Yes
Missed Packet Retransmissions	Yes	Yes
Datacast XD Host 1:1 Redundancy	Not Available	Optional
Host Retriever Service (File Delivery via Terrestrial IP Connection)	Not Available	Optional
WSDL Interface for 3rd party integration	Yes	Yes
Database interface API for 3rd party integration	Not Available	Yes
XD Client for Windows Platform	Existing networks only	Existing networks only

APPLICATION	DATACAST XD CLIENTS	MULTICAST	TERRESTRIAL	DATAMAN
DATA	**SuperFlex Pro Data**		Yes	Yes
VIDEO	**SuperFlex Pro Data XTR**	Up to 70 Mb/s*	Yes	Yes
	SuperFlex Pro Video			
	SuperFlex Pro Video XTR			
	Windows XD Client	Existing networks only	Existing networks only	Existing networks only
				* Under IDC Lab Conditions

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