

Using GlobeCast Content Exchange over BGAN

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1 Overview

There are many questions facing any company deploying their teams in remote areas.

- How can I transfer data heavy files, like videos, quickly?
- How can I send a number of files simultaneously?
- How can I send sensitive content in a secure way?
- How can I save my files in a secure location while I'm away from the office?
- How can I cover any event, anywhere, anytime?
- How can I communicate in a real time mode?

Many remote devices such as data logger or utility meters have the ability to store information and communicate over a circuit-switched telephony data call with a central data management system.

This is practical for environments where traditional telephony services are readily available. However, when these devices are installed in remote locations, communication becomes challenging and in many cases, very expensive. What's more, most circuit-switched network infrastructure is being phased out and replaced with IP based network, which can require an expensive system redesign.

On-Go has developed a solution that allows the existing infrastructure to remain the same while providing all the benefits of packet-based, IP communications backbone.

1.1 The GlobeCast solution

GlobeCast Content Exchange is a powerful file transfer and exchange tool that enables you to share audiovisual content as easily as sending an email, and broadcast live video as simply as using your webcam.

Using a BGAN IP data connection, you can quickly send and receive your files and videos – wherever they have been captured – to as many of your contacts as you wish, simultaneously, and within a secure VPN environment.

Unlike most email servers and programs, GlobeCast Content Exchange has no file size limits and is ideal for handling very large files with highly optimised transfers over BGAN and FleetBroadband.



2 Product range

2.1 File

File offers an asynchronous content exchange service for audiovisual files in Unicast mode. It is designed for mobile and fixed users who require delivery tracking functionality.

GlobeCast Content Exchange File offers:

- Asynchronous transfer mode.
- Utilization of “on the fly” transfer logic.
- Monitoring of the transfer process.
- Recovery of last position in the event of a need to stop sending, or error.



- Transfer regulation policy.
- Optimisation for transmission in high latency networks (for example, satellite).
- Centralised, personalised storage space.
- Optimised management of multiple file transmissions.
- File exchange with all contacts listed in your GlobeCast Content Exchange network.

2.2 Storage

GlobeCast Content Exchange Storage offers:

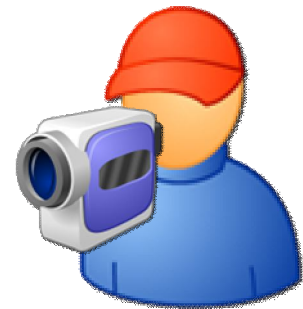
- Remote storage services...
 - for redistribution potential.
 - for future needs.
- Three storage categories:
 - Personal space.
 - Fleet space.
 - Shared folders.



2.3 Live

GlobeCast Content Exchange Live offers the following services in real time:

- On the fly capture (picture + sound) via a DV device.
- Transmission of the content to ONE online contact.
- Live reception of the content, and the ability to save to a local disc
- Ability to export to a DV device.
- Ability to adapt the broadcast quality depending on the network characteristics.



2.4 Chat

GlobeCast Content Exchange Chat offers a text-chat service that:

- allows the users to communicate in real time in text mode as easily as with any other instant messaging service.
- can be used at any time by a user connected to the service with all the members of the "community" who are also connected.

2.5 Directory

GlobeCast Content Exchange Directory offers the following features:

- Ability to store contact information for your colleagues, clients and suppliers, including:
 - Zip code
 - Email address
 - Phone
 - Language
 - Password
- Contact Management system, enabling you to:
 - Research your contacts in the fleet
 - Ask for a link between you and your contact
 - Manage requests

2.6 SMS, email

Use GlobeCast Content Exchange to send SMS and email directly to your contact to notify them that a new file is now available on the GlobeCast Content Exchange platform.

2.7 Supervision

GlobeCast Content Exchange offers:

- Supervision of all transfers.
- View of transfer history
- Information on all content received by recipients

3 Typical users

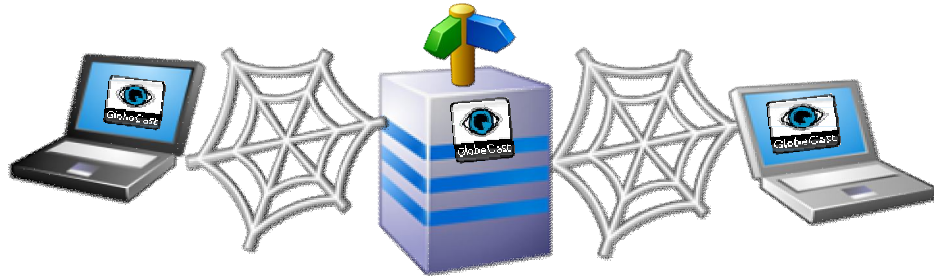
- Journalists, broadcast, press, news organisations
- Field engineers
- Advertising agencies
- Corporate video producers
- NGOs
- Military
- First responders

4 Benefits to BGAN users

The benefits of GlobeCast Content Exchange include:

- Access to the GlobeCast Content Exchange platform via a secure Cisco VPN tunnel.
- Ultra-rapid video dispatch via GlobeCast Content Exchange File, with any type of Internet Access.
- Follow-up of data sent through the GlobeCast Content Exchange File transfer application and by Short text Message (SMS).
- Security of content wherever you are.
- Ability to send large files simultaneously to your colleagues.
- Information in real time about the state of your transfers, using a simple software solution.
- User-friendly interface.
- Optimised for BGAN.

5 Setting up



5.1 Setting up Content Exchange

Content Exchange is an ASP configuration service. Simply install the Content Exchange software on your PC or your Mac, and then get connected to the on line service through an IP VPN pass through connection.

No specific configuration is needed.

5.2 Setting up Live Video

Note the following when using Content Exchange Live Video:

- Install the DV or Web Cam prior to launching Content Exchange.
- You must have Windows Media Player v11 installed on your PC.
- Disable any other VPN client from the network adapter.
- A Core 2 Duo PC is required to support real-time video encoding.

5.3 Setting up BGAN

Note the following:

- No port forwarding is needed.
- The Thrane & Thrane EXPLORER 500 can be used in Router or Modem mode.
- Standard IP is recommended for File Transfer and Store and Forward video.
- Streaming IP is recommended for Live Video broadcast.

6 Test results achieved over BGAN/FleetBroadband

Test	Result
Content exchange version tested:	3.6.1 build 1441
Content exchange login time:	1min over BGAN Standard IP
Idle bandwidth usage:	2 - 3kbps
Live Video delay over BGAN xStream:	1.5sec round trip
BGAN xStream profile to be set to:	340kbps + 12kbps for Audio, resolution 720 x 576, 25fps
BGAN 256 kbps IP streaming profile	230kpbs+12kbps for audio, resolution 360 x 288
BGAN 128 kbps IP streaming profile	105kpbs+12kbps for audio, resolution 360 x 288

7 Technical summary

Features	Details
Files transmission	Proprietary protocol
Live	Windows Media
Operating System / Platform supported	Windows XP, Mac Leopard
Store & forward	Store To of content as many as you need
Security	Cisco IPSec VPN

8 Further details, support and feedback

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GlobeCast

A problem or a question? Contact one of the following:

- The help center.
- The following web link:
<http://europe.GlobeCast.com/HelpCenter/GlobeCastCE/>
- Your fleet manager!

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