CollaBOD - Collaborative Bandwidth on Demand
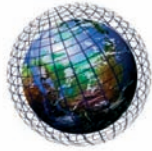
Applications: Satcom Network Systems and Services

" Now that user groups can schedule and operate their own satellite sessions, the network operations staff are no longer involved in the day-to-day operations of bandwidth-on-demand user programming. Thanks to CollaBOD, staff are only involved if there is trouble."
Keith Sheppard, Project Manager, Colabnet

PRIME CONTRACTOR:

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PROJECT PARTNER:

Telesat (Canada)

PROFILE:

CollaBOD is an integrated Bandwidth-on-Demand management system developed to control satellite circuits in real time and fill a gap between three user groups:

- the satellite network operations centre (central operations)
- the programme real-time operators (regional operations)
- the regional programme coordinators (advance booking and billing).

'Central operations' is a user-group that is involved in the configuration and monitoring of satellite circuits. The 'regional operations' user-group is involved in the real-time operation of satellite facilities, shared user facilities, and equipment. The 'regional coordinators' user-group is responsible for advance detection of conflicts involving end-user equipment, facilities or bandwidth. CollaBOD provides interfaces for each of these user groups.

CollaBOD has a distributed user interface for the advance reservation of network resources and real time circuit control. Conflicts are detected when the reservations are requested. CollaBOD provides usage-tracking reports for billing and capacity planning. Access to the CollaBOD resources is based on a user profile configured at the central CollaBOD server. Each user is provided with an interface that reflects the subset of resources for which they are responsible. This helps to reinforce the responsibilities of each user within the customer-support network.

CollaBOD is deployed with Telesat Canada which supports projects such as Smart Labrador under Canada's national Smart Communities Program, where IP-based services are provided to multiple user sites in Canada's North for data and video-conferencing applications.