

# Cutting-edge Network Management System



The BWCC Network Management System is responsible for M&C all SATCOM terminals inside the system. It supports FDMA/SCPC SATCOM system and has the core network management capacities such as parameters configuration, service processing, real-time system status monitoring, communication records analysis and security control of system operation. It also has more advanced functions such as dynamic allocation of satellite resource, remote control of SATCOM terminals, hierarchical management of control centers, virtual subnet resource management, shared channel services, local/remote hot backup and etc.

BWCC Network Management System	Common SATCOM Network Management System
<ul style="list-style-type: none"> <li>• Patent satellite channel allocation algorithm</li> </ul>	<ul style="list-style-type: none"> <li>• Simple channel allocation</li> </ul>
<ul style="list-style-type: none"> <li>• High resource utilization rate</li> </ul>	<ul style="list-style-type: none"> <li>• Waste of resources</li> </ul>
<ul style="list-style-type: none"> <li>• High availability M&amp;C protocol</li> <li>• Stable and reliable communication control</li> </ul>	<ul style="list-style-type: none"> <li>• Frequent disconnection due to unreliable channels</li> </ul>
<ul style="list-style-type: none"> <li>• Distributed software architecture</li> </ul>	<ul style="list-style-type: none"> <li>• Lacks of scalability</li> </ul>
<ul style="list-style-type: none"> <li>• Large scale of network management</li> </ul>	<ul style="list-style-type: none"> <li>• Limited network size</li> </ul>
<ul style="list-style-type: none"> <li>• User-friendly UI</li> </ul>	<ul style="list-style-type: none"> <li>• Less consideration of user convenience</li> </ul>

# Technical Parameter

## BWCC Network Management System

<ul style="list-style-type: none"> <li>• Terminals Configuration</li> </ul>	<ul style="list-style-type: none"> <li>• Supporting configuration operation of satellite earth station and communication terminal through graphical mode.</li> </ul>
<ul style="list-style-type: none"> <li>• Topology Management</li> </ul>	<ul style="list-style-type: none"> <li>• Displaying earth station information on the electronic map.</li> <li>• Supporting trajectory display, zooming, tracking and other operations.</li> </ul>
<ul style="list-style-type: none"> <li>• Satellite Resource Allocation</li> </ul>	<ul style="list-style-type: none"> <li>• Supporting configuration operation of satellite, beam, transponder, available frequency range and other parameters through graphical mode.</li> </ul>
<ul style="list-style-type: none"> <li>• Dynamic Traffic Channel Allocation</li> </ul>	<ul style="list-style-type: none"> <li>• Dynamic allocation of satellite channels according to the communication capabilities of both ends.</li> </ul>
<ul style="list-style-type: none"> <li>• Automatic Power Control</li> </ul>	<ul style="list-style-type: none"> <li>• Automatic transmission power configuration according to the antenna aperture and BUC power of both ends.</li> </ul>
<ul style="list-style-type: none"> <li>• Terminal Communication Control Function</li> </ul>	<ul style="list-style-type: none"> <li>• Supporting operations such as communication disconnection, drawing back or re-entering the network.</li> </ul>
<ul style="list-style-type: none"> <li>• Query and Statistics of Service Data</li> </ul>	<ul style="list-style-type: none"> <li>• Supporting the query/statistics of operation and communication logs according to time, terminal, department or other conditions.</li> </ul>
<ul style="list-style-type: none"> <li>• Fault Alarm</li> </ul>	<ul style="list-style-type: none"> <li>• Obtaining fault data by polling and automatic reporting.</li> </ul>
<ul style="list-style-type: none"> <li>• Performance Alerts</li> </ul>	<ul style="list-style-type: none"> <li>• Timing statistics of the system control channel utilization rate.</li> <li>• Automatic alarming when exceed the threshold.</li> </ul>
<ul style="list-style-type: none"> <li>• Terminal Parameter Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Supporting regular queries or user-initiated queries to monitor communication-related parameters of the terminals.</li> </ul>
<ul style="list-style-type: none"> <li>• Shared Channel Communications Services</li> </ul>	<ul style="list-style-type: none"> <li>• Supporting non-real-time services (shared channel for multi-terminals) such as text, voice short message, pictures, etc.</li> </ul>
<ul style="list-style-type: none"> <li>• Multicast Communication Services</li> </ul>	<ul style="list-style-type: none"> <li>• Supporting multicast services among multiple communication terminals.</li> </ul>
<ul style="list-style-type: none"> <li>• Virtual Subnet Management</li> </ul>	<ul style="list-style-type: none"> <li>• Supporting logical division of satellite resources and communication terminals.</li> </ul>
<ul style="list-style-type: none"> <li>• Remote Management</li> </ul>	<ul style="list-style-type: none"> <li>• Adopting B/S architecture to support remote operation through the network.</li> </ul>

