



COMBAT SERVICE SUPPORT AUTOMATED INFORMATION SYSTEMS INTERFACE (CAISI)
EXECUTIVE OVERVIEW



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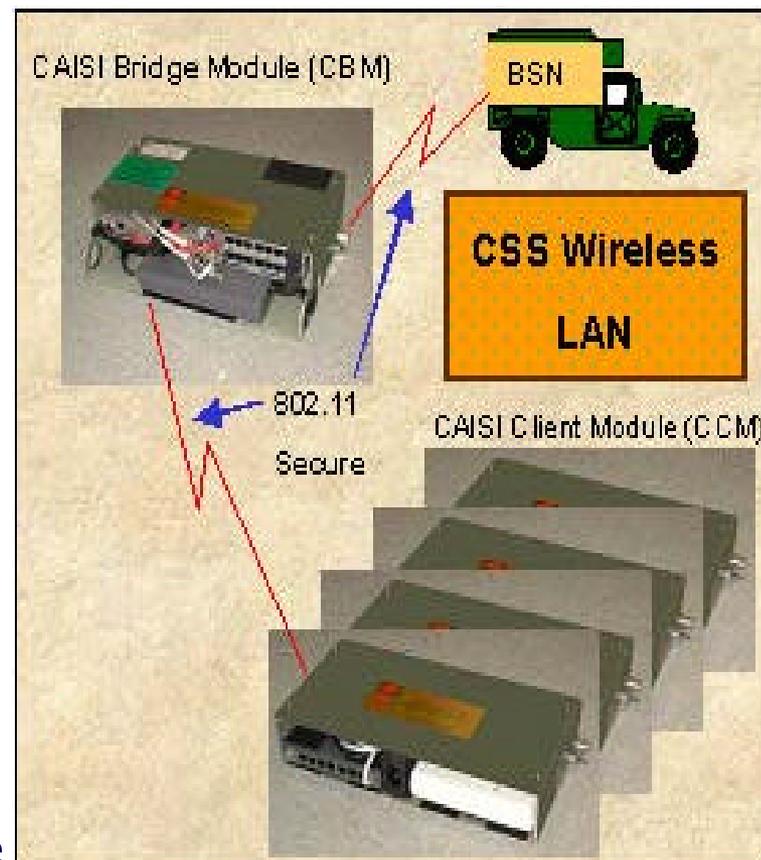
CAISI Description and Relevance

Description: Combat Service Support Automated Information System Interface, CAISI, is a high data rate wireless LAN used to connect combat service support computer systems (unclassified only) deployed within the tactical battle space. CAISI may also be used to provide or extend unclassified LAN connectivity in garrison or other geographic locations.

Relevance:

Importance to Joint Warfighting: CAISI is the backbone for the Sensitive But Unclassified (SBU) Network providing the Logistics Warfighter a high data rate secure wireless LAN used to connect combat service support computer systems (unclassified only) deployed within the tactical battle space. CAISI may also be used to provide or extend unclassified LAN connectivity in garrison or other geographic locations.

Importance to Army: We are succeeding in fulfilling the Army's directive to eliminate "sneaker net" and provide CSS STAMIS automated access to the Tactical Packet Network (TPN) by connecting into long haul Satellite Networks or MSE Networks.



WHAT IS CAISI?



- WIRELESS LOCAL AREA NETWORK (LAN)
- SEAMLESS COMMUNICATIONS INTERFACE BETWEEN CSS BATTLEFIELD COMPUTERS, ACUS/COMMERCIAL COMMUNICATION SYSTEMS AND VSATs
- NIST/FIPS 140-1 SECURE FOR SBU TRAFFIC
- LINE OF SIGHT TRANSMISSION COVERAGE
- RANGE EXTENDING AND SELF HEALING NETWORK
- 11Mbps THROUGHPUT VIA COMPRESSION



CAISI BRIDGE MODULE



CAISI OMNI ANTENNA

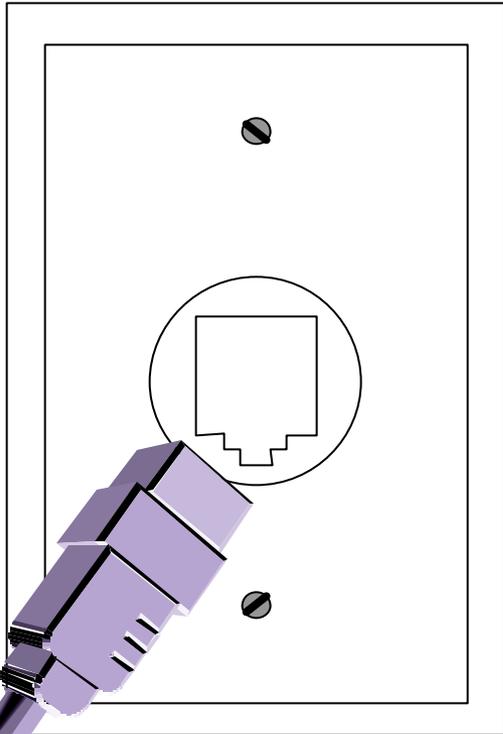


AIRFORTRESS

SAID ANOTHER WAY...



OF ETHERNET CONNECTIONS CAISI BRINGS TO A...



CORPS HEADQUARTERS	2,415
DIVISION	2,471
SBCT	392

CAISI COMPONENTS



- CLIENT MODULE
 - CONNECT UP TO 7 COMPUTERS TO WAN
- BRIDGE MODULE
 - CONNECT UP TO 14 COMPUTERS TO WAN
 - RADIO RELAY
 - DSL BACKUP
 - CONNECT TO ACUS/COMMERCIAL COMMUNICATIONS
- SYSTEM SUPPORT
 - LAPTOP WITH COMPONENT CONFIGURATION SOFTWARE
 - ROUTER WITH NAT & DHCP CAPABILITY



CLIENT
CAISI MODULE
CCM



BRIDGE
CAISI MODULE
CBM



SSR

CAISI IS COTS



- OFF THE SHELF TECHNOLOGY, INTEGRATED FOR ARMY USE
- ENGINEERING ACTIVITIES:
 - PEO EIS
 - ISEC
 - SEC-B
- ASSEMBLED AT TOBYHANNA ARMY DEPOT
- PRODUCTION LEAD TIME IS 4-5 MONTHS



CCM



CBM

■ NOMENCLATURE

- SSR - Accessory Kit, Electronic Equipment LIN# Z50057 MK/TSQ-XX, NSN: 5999-01-487-2681
- CCM – Processor Group, Signal Date LIN# Z53056 OL-XXX/TYQ, NSN: 5895-01-487-4023
- CBM – Processor Group, Signal Date LIN# Z53098 OL-XXX/TYQ, NSN: 5895-01-487-4020

■ BOIP IN PROCESS (LOA signed by G4 Systems Integrator 30 September 2002)

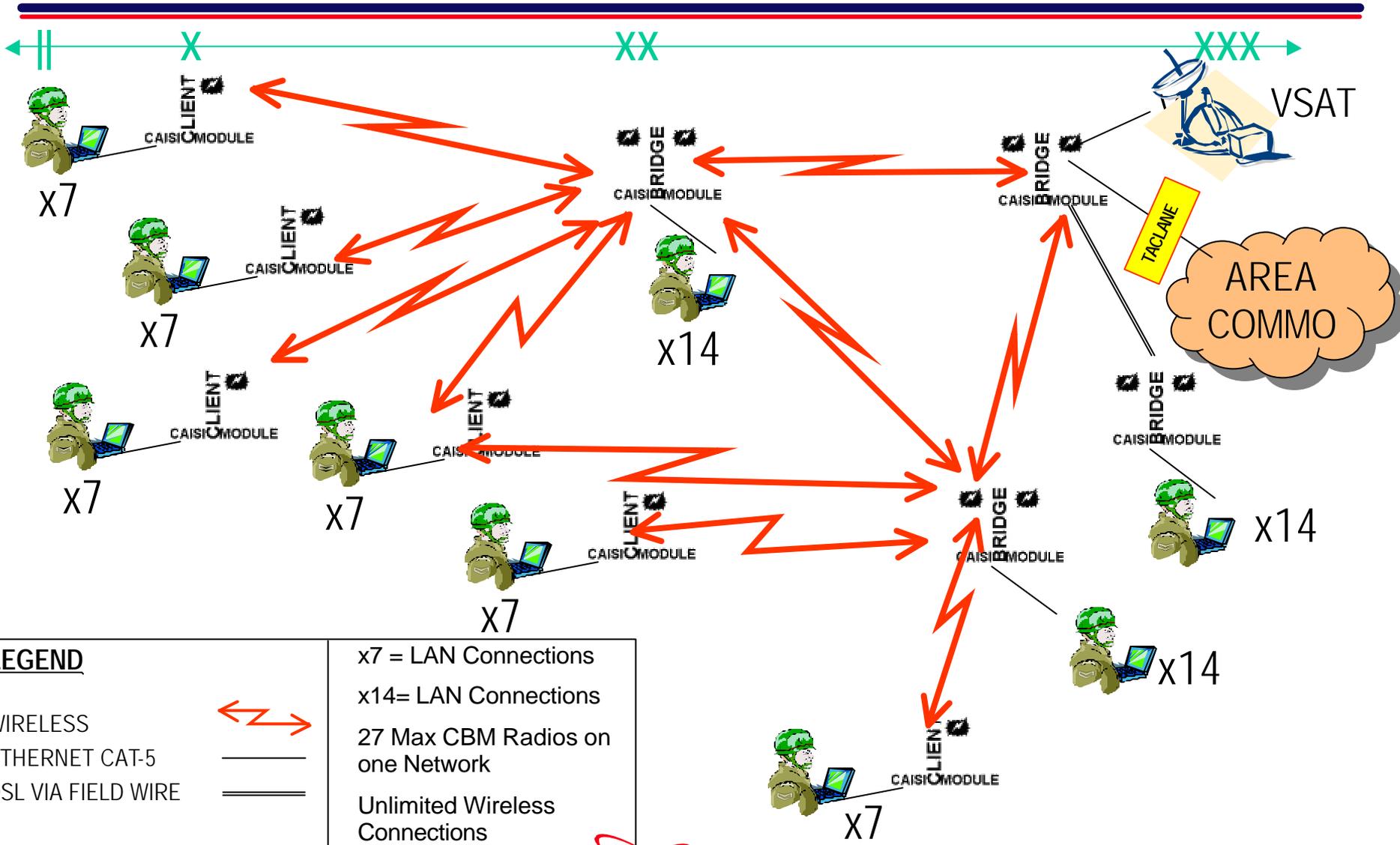
■ TRAINING CLASSES

- CAISI NET CLASS
 - 5 DAY
 - 31U, 74B, AND 92A (SARSS OPERATORS), CSSAMO AND S6 PERSONNEL
 - MAXIMUM OF 20 STUDENTS PER CLASS:
- ULLS/SAMS/SARSS INTERFACE CLASS
 - 6 HOURS
 - WHO: All ULLS, SARSS, AND SAMS USERS
 - MAXIMUM OF 10 STUDENTS PER CLASS
- Computer Based Training (Online, url: <http://128.190.249.254/caisi>)

- DOCUMENTATION
 - TECHNICAL MANUALS PROVIDED
 - TM FOR HARDWARE
 - TB FOR SOFTWARE
- CBT IN DEVELOPMENT, DUE 2nd QTR FY03
- 8% FLOAT PROVIDED AT DEPLOYMENT
- 3 LEVEL MAINTENANCE CONCEPT
 - UNIT/OPERATOR
 - DIRECT SUPPORT
 - DEPOT/FRA TOBYHANNA
 - LOCATIONS (TOBYHANNA, PA; FORT HOOD, TX; FORT BRAGG, NC; GERMANY; KOREA; HAWAII; IRAQ; KOSOVO AND BOSNIA)
- HELP DESK PROVIDED BY SEC-W (FORT LEE), DSN 687-1051 or Commercial 804-734-1051

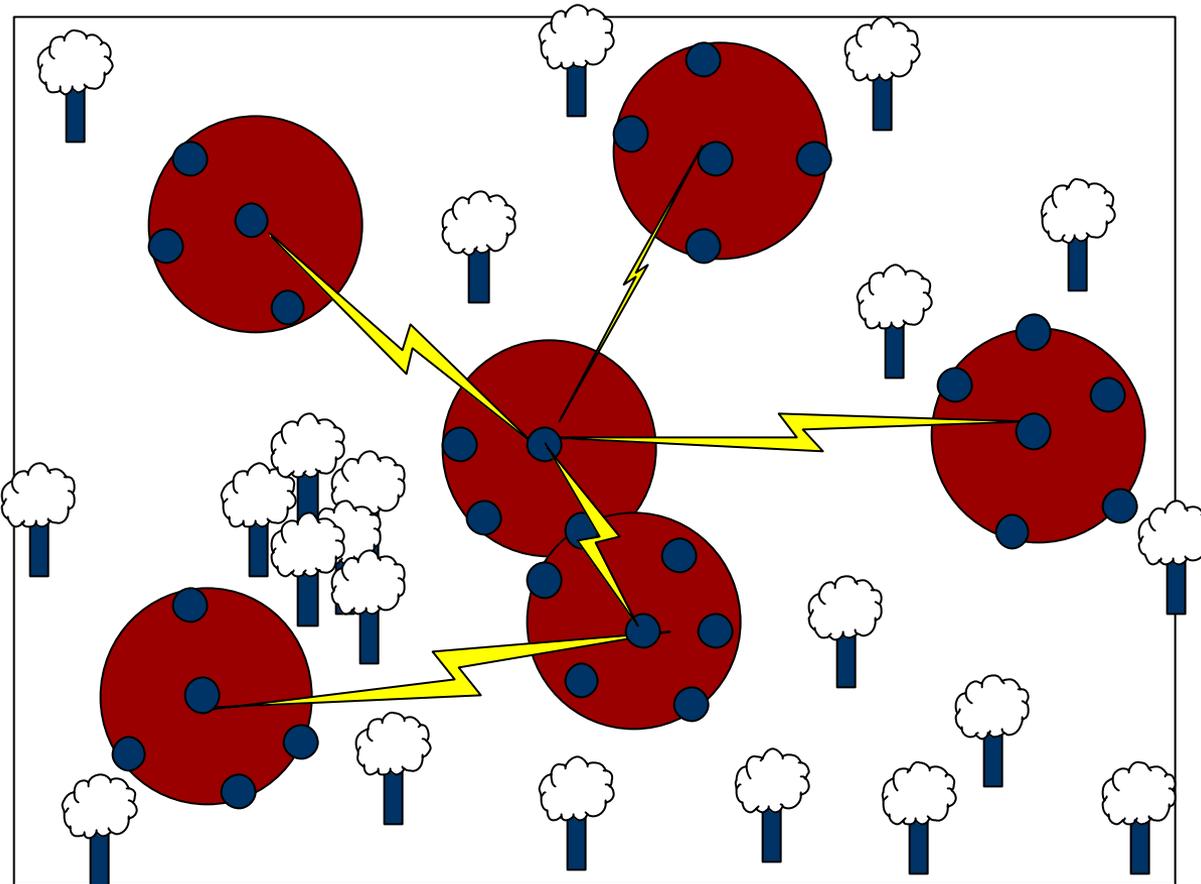


CAISI High Level Architecture



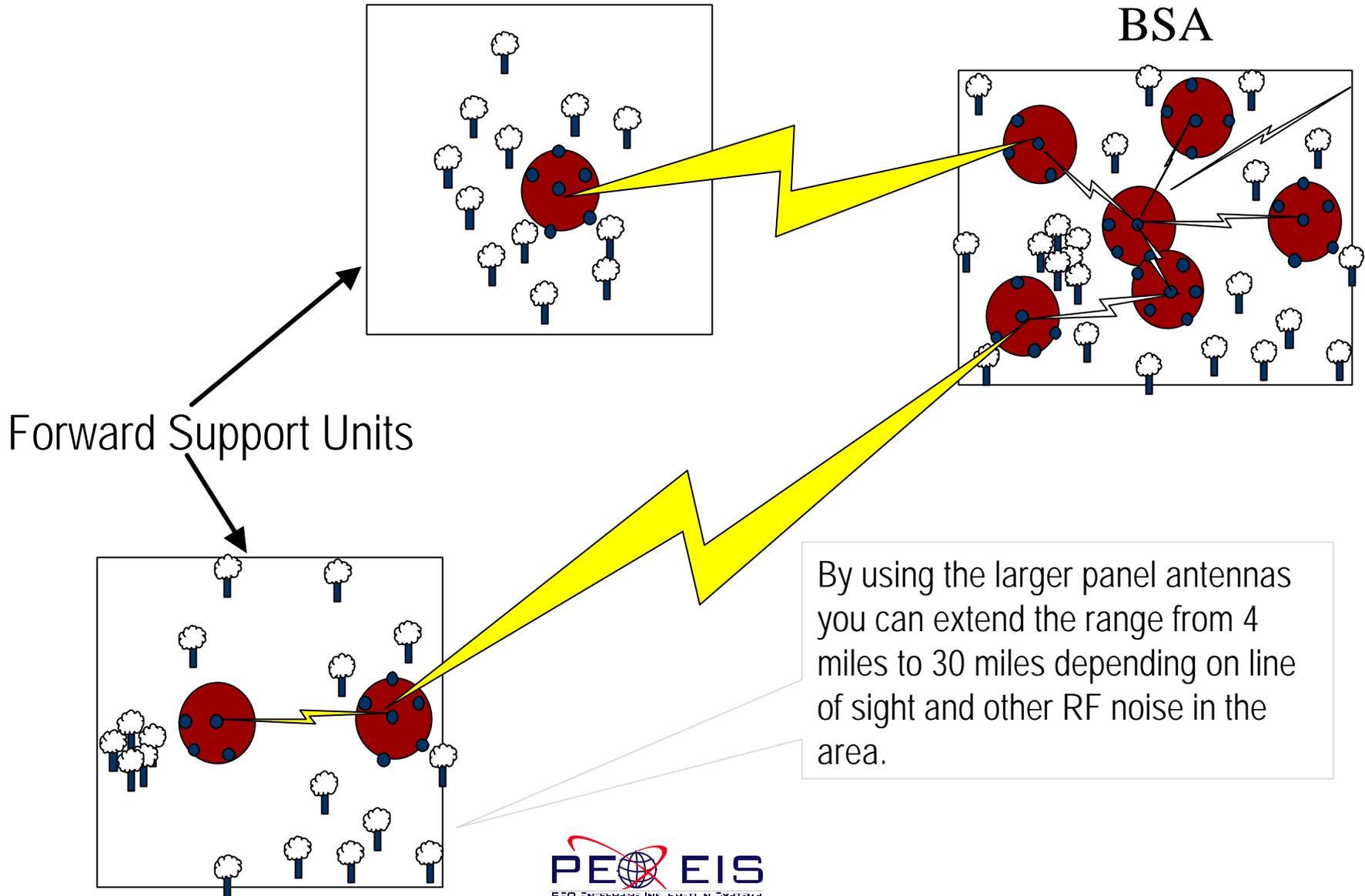


The CAISI Bridge Module is located in the center of the circle.



The CAISI Client Module (CCM) are located on the outside of the circle.

Brigade Support Area approximately 4 miles square. Between two CBMs with a 30 ft antenna mast you can plan on 4 miles; between a CBM and CCM you can plan on ¼ to two miles, depending on the antenna. Everything is dependent on a clear line of sight.



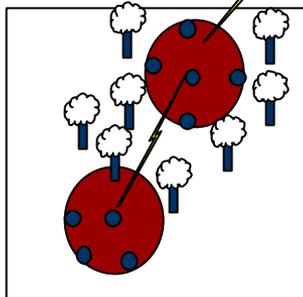
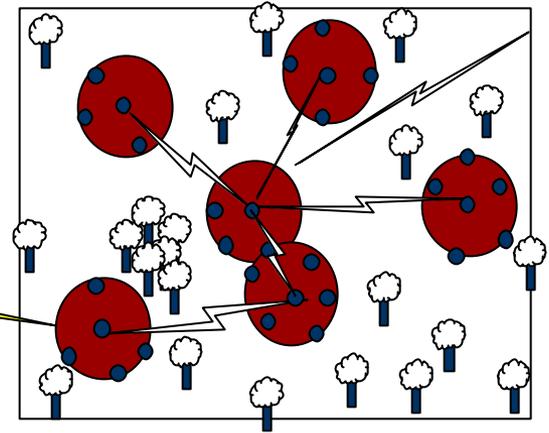
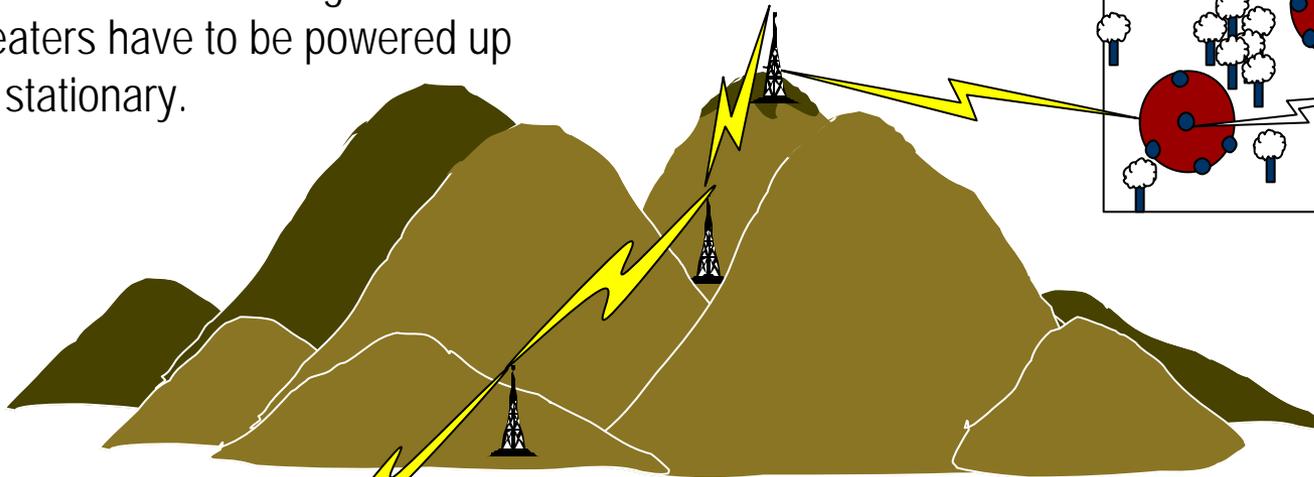
CAISI Connectivity Ideas

3 of 4



12

The automatic repeating function in the CBM radios allows you to establish a connection through a canyon to connect to distant locations. The challenge is the repeaters have to be powered up and stationary.



CAISI Connectivity Ideas

4 of 4



13

Hard wire use up to four miles when line of sight is obstructed. Once line of sight is reestablished then the planning figures for the CAISI CBM is 4 miles with a 30ft antenna mast height.

