



CONNECTICUT LAND MOBILE RADIO NETWORK

Technical Advisory Bulletin

**SUBJECT: INTER SUB-SYSTEM INTERFACE (ISSI)
CONSOLE SUB-SYSTEM INTERFACE (CSSI)**

DISCUSSION: CLMRN supports a number of interfaces to other or similar manufacturers equipment including the Inter Sub-System Interface (ISSI) and the Console Sub-System Interface (CSSI). There are important limitations, however, that must be considered when considering the potential use of ISSI or CSSI.

ISSI Limitations include:

Interconnection: Unless otherwise agreed upon, the “foreign” system is responsible for any initial or ongoing interconnection costs.

Redundancy: Redundancy may be problematic depending on the manufacturer and their implementation of redundancy. CLMRN has two ISSI/CSSI servers for redundancy.

Site Adjacency: Motorola Solutions, at this time, does NOT support site adjacency across the ISSI. ANY changes in control channels must be reported to the NCC as soon as practical.

Aliasing: Motorola Solutions, at this time, does not support non-Motorola Solutions aliasing across the ISSI.

Automatic Roaming: Automatic Roaming is supported, however coverage may be limited due to CLMRN operational requirements.

TDMA Only Operation: ONLY TDMA or non-RF talkgroups will be considered for implementation across the ISSI. Transcoding is NOT available.

Subscriber Programming: Implementation of ISSI requires specific subscriber programming to enable and function correctly.

Encryption: Use of encryption across the ISSI will require coordination with the CTS Unit prior to implementation.

Link Layer Authentication (LLA): Link Layer Authentication is being planned for implementation. We are working with various ISSI vendors on deployment and implementation of LLA.

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CSSI Limitations include:

Patching: Patching two or more trunked resources is prohibited.

Conventional Channel Gateway (CCGW):
The resources available via CCGW are NOT generally available on CSSI connected consoles.

Aliasing: Depending on the console manufacturer, aliasing on the trunked system may NOT be available

Redundant Links: Many CSSI connected consoles do not provide for redundant links to the Core. This may result in impairment if the link is problematic.

NCC Monitoring: Unless otherwise provided for, the Network Control Center does NOT monitor the health of CSSI connected console systems.

Paging: Those systems that use paging will need to consult with CTS prior to any paging activity on the trunked system, especially when multiple talkgroups are involved.

Encryption: The use of encryption, including crypto periods, will need to be discussed with the CTS staff prior to implementation.