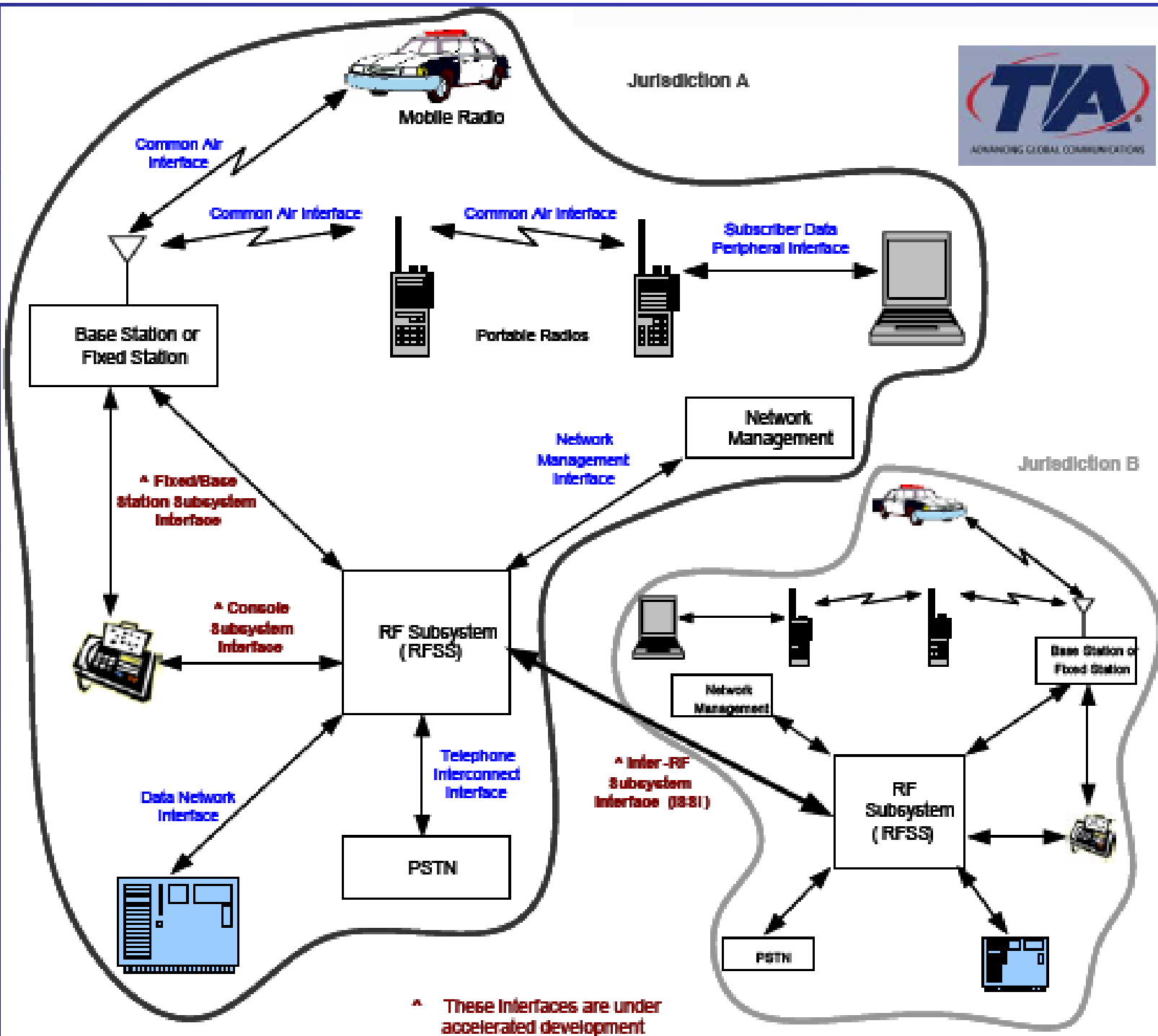


Project 25 Inter RF Subsystem Interface (P25 ISSI)

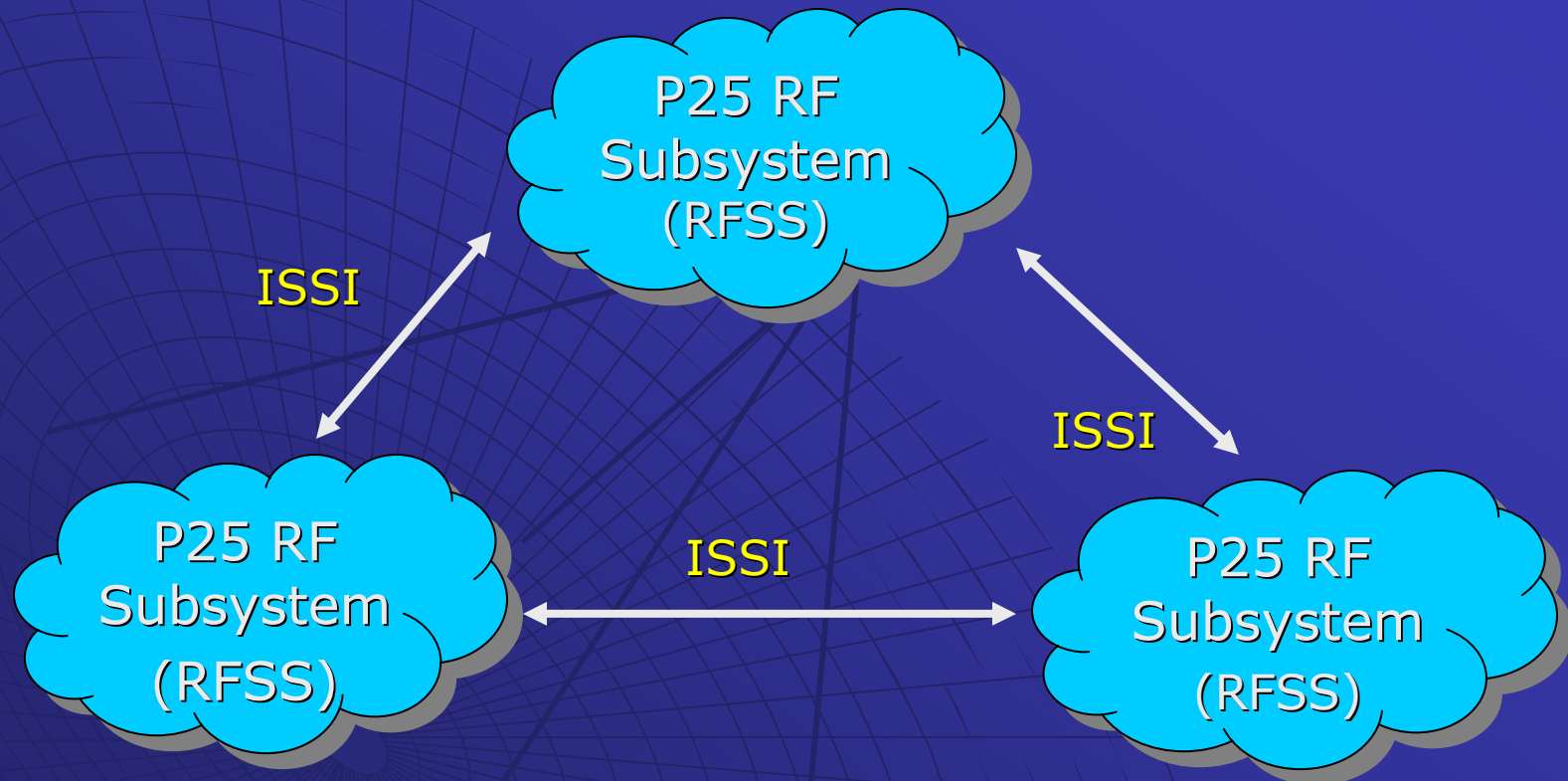
By Scott Grimmatt, BSEE
Industrial Communications

P25 Interfaces

- ◆ Common Air Interface (CAI)
- ◆ Subscriber Data Peripheral Interface
- ◆ Fixed Station Subsystem Interface (FSSI)
- ◆ Console Subsystem Interface (CSSI)
- ◆ Inter-RF Subsystem Interface (ISSI)
- ◆ Network Management Interface
- ◆ Data Network Interface
- ◆ Telephone Interconnect Interface



Inter-RF Subsystem Interface (ISSI)

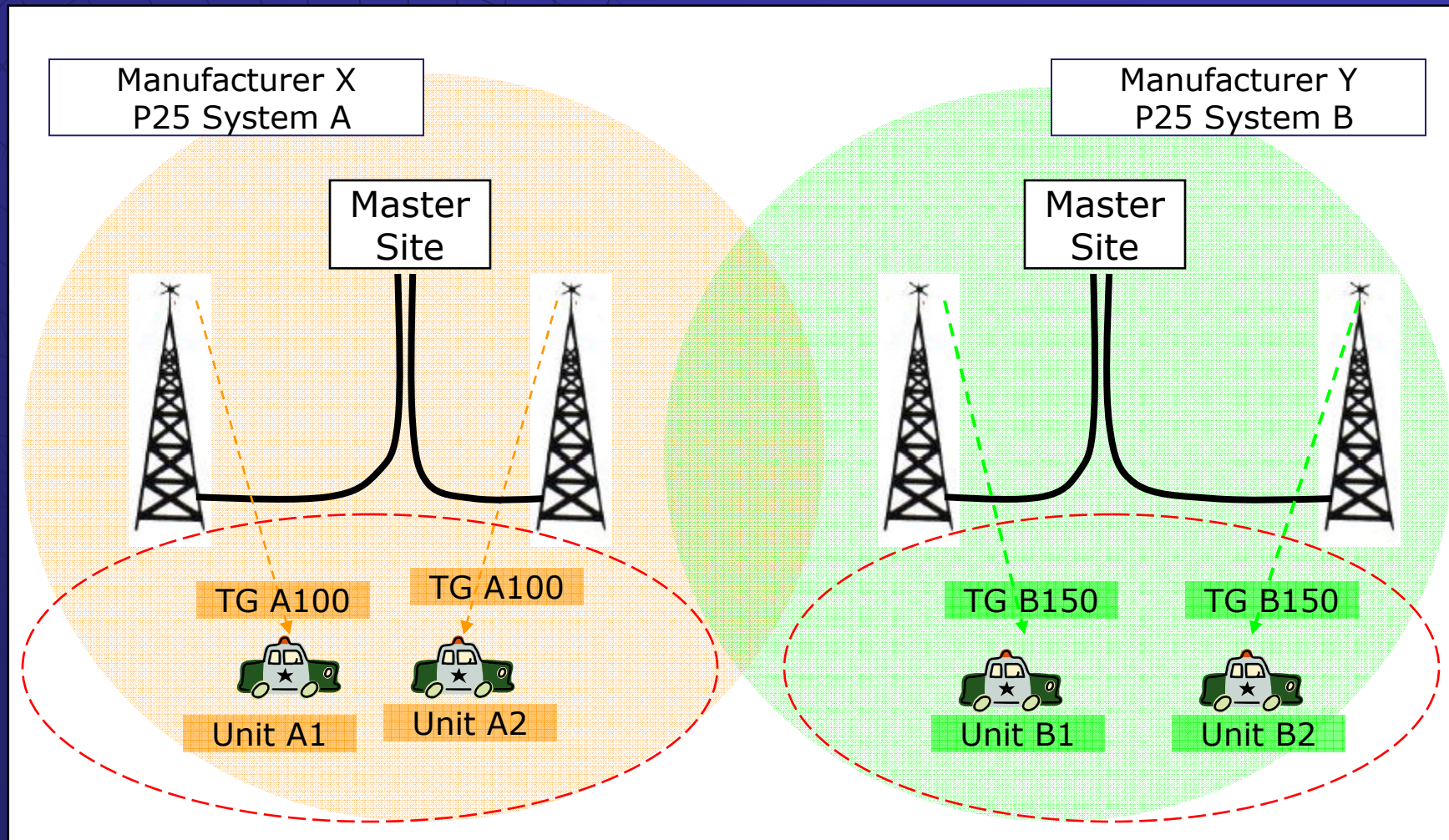


- ◆ A non-proprietary interface that enables RF subsystems built by different manufacturers to be connected together into wide area networks.

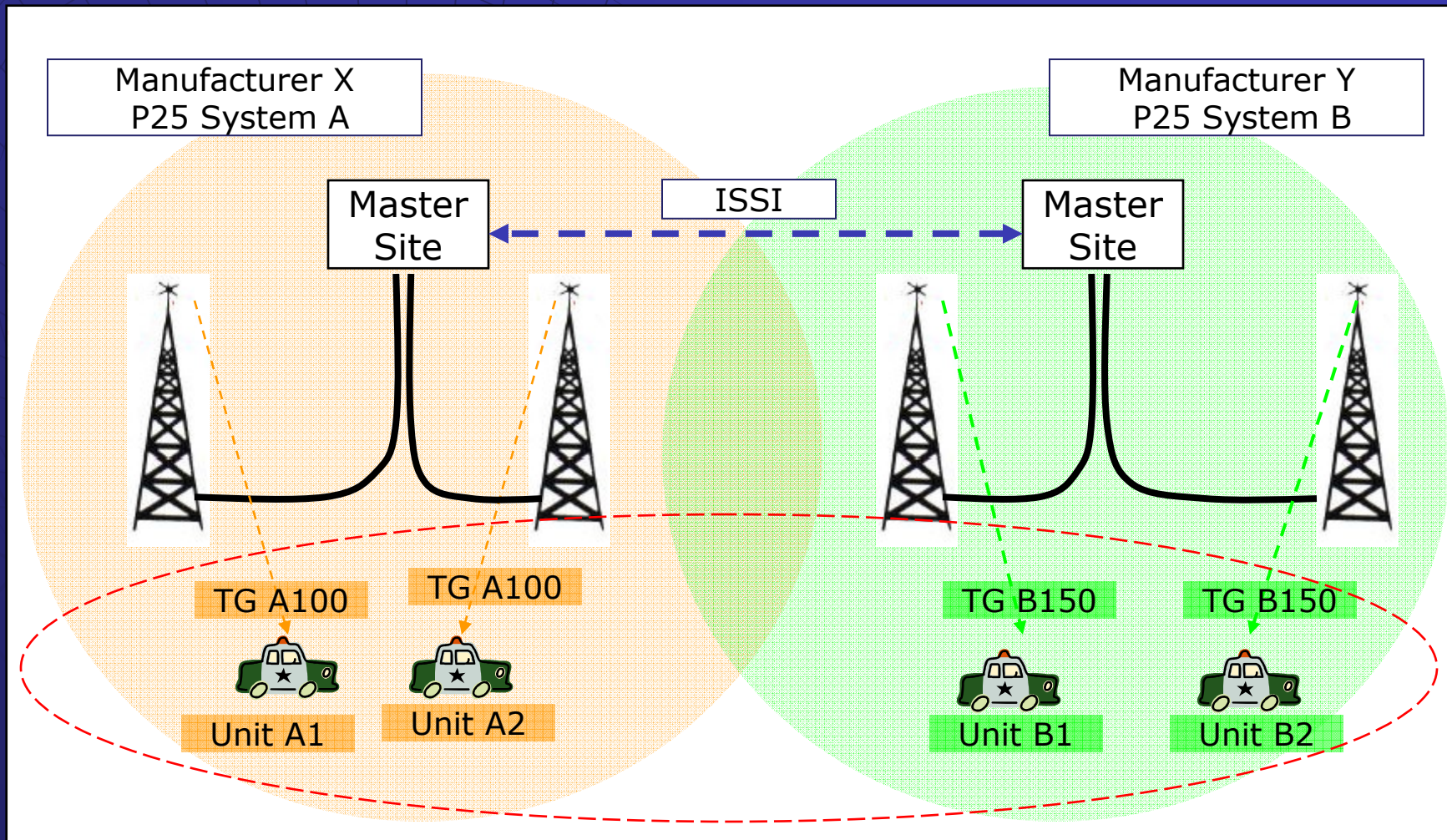
P25 ISSI

- ◆ Non-proprietary interface
- ◆ IP based
- ◆ Interconnects radio systems built by different manufacturers
- ◆ Connects systems operating in different frequency bands
- ◆ Creates wide area radio networks for extended coverage area for roaming subscriber units
- ◆ Provides voice and data services, end-to-end encryption and roaming.

No ISSI – No interoperable communications between systems

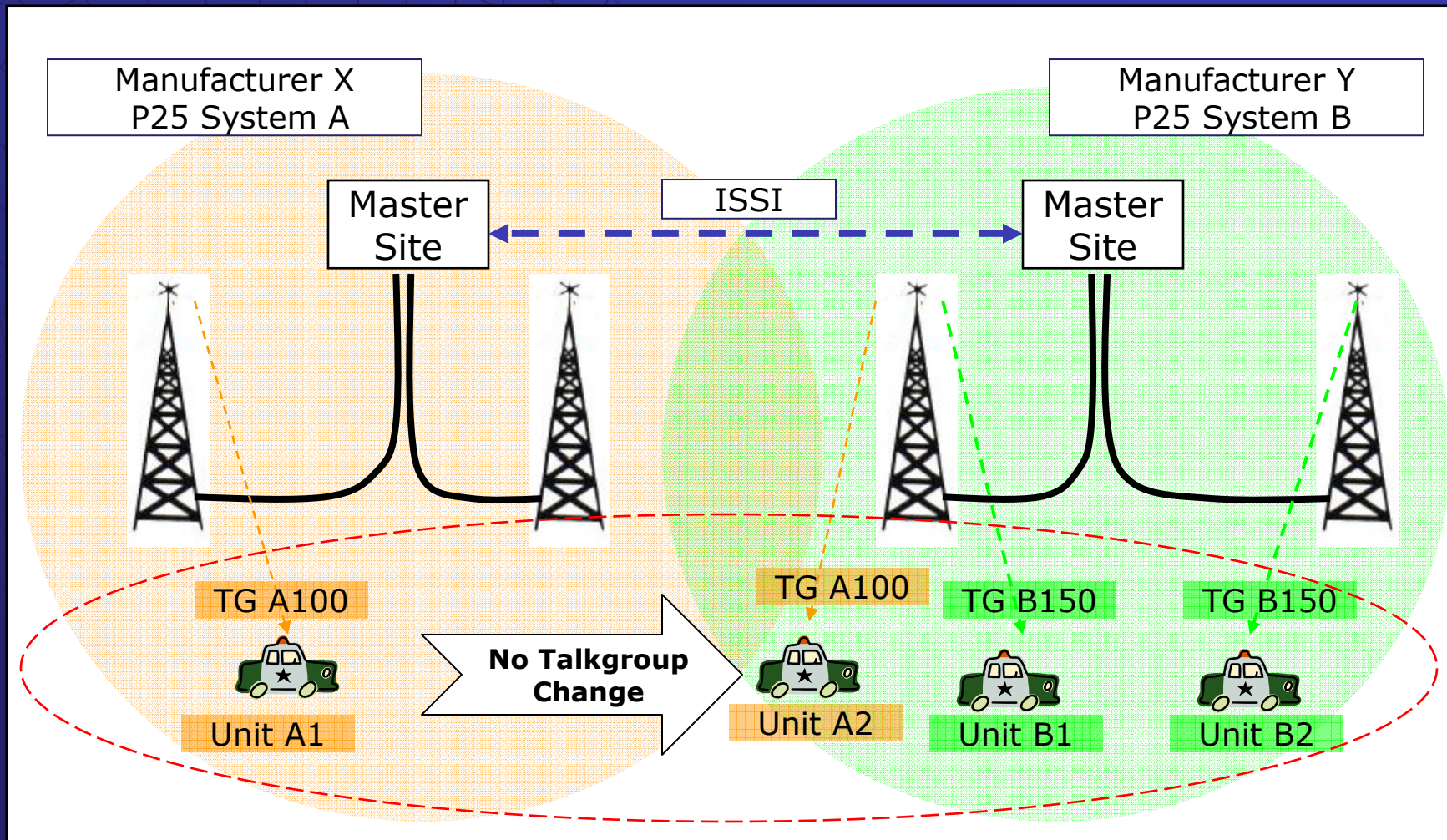


ISSI – Interoperable communications between systems



Seamless ISSI Roaming

No talkgroup change between systems



Non-Seamless ISSI Roaming Talkgroup change between systems

