

## Exhibit 12 – Operational Description

### General Dynamics C4 Systems PathMaker Network Radio

FCC ID: MIJPNR-1000

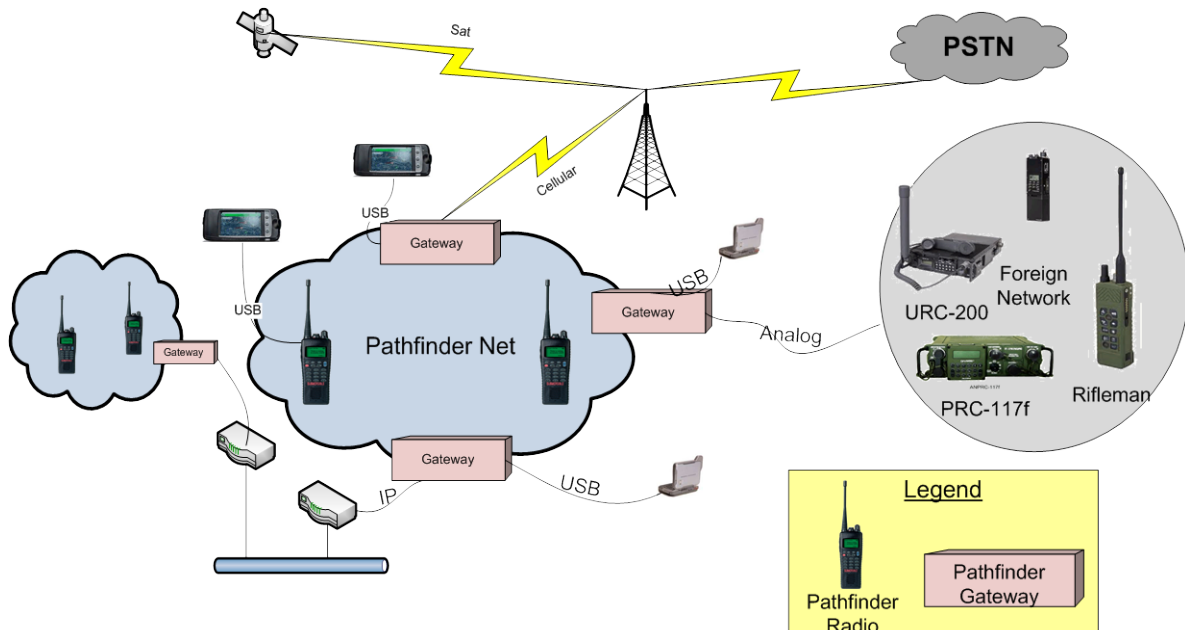
Model No. PNR-1000

## 12.0 Operational Description

PathMaker Network Radios provide dynamic wireless, mobile, ad-hoc networking communications without reliance on network infrastructure. PathMaker Radio users become their own network, which makes the radios ideal for use in remote locations where no infrastructure exists or where the infrastructure has been destroyed or overloaded.

Where legacy network infrastructure exists, the PathMaker Network Radio System can take advantage of those networks by providing gateways, thereby increasing the network's footprint and reach. With a maximum of 32 radio users per network, users can form traditional squad communications groups, or extend range and coverage by connecting to multiple networks. Users can communicate privately (one to one), as a group (one to many), and have multiple private and group sessions.

The following diagram shows the basic system connectivity environment.



**Figure 2.1-1 PathMaker Network Radio System Context Diagram**