



**Enhanced
Decision Making
for the Digital
JTAC**



What is Changing?

- Precision guided munitions are here to stay
- Drive towards nil fratricide
- Accuracy in the targeting process
- Greater access to real-time information



What a JTAC Needs To Do Their Job

- Equipment
 - Targeting
 - Communications
 - Navigation
 - Self protection

- Access to real time situational awareness
 - Ground picture
 - Air picture



How Does the JTAC Get Situational Awareness?

- Australian JTACs use the Digital Terminal Control System (DTCS)
 - Digital Close Air Support and Digital Call for Fire
 - Gets SA from both analog and digital sources such as AFATDS

But...

- Ability to get situational awareness information from BMS is *planned*
- Ability to get situational awareness information from air picture is *planned*



The “Secret Sauce”

- The trick to providing JTACs with operational Situational Awareness is the fusion of multiple data sources
 - Air picture via Link-16
 - Ground picture via VMF
 - BMS and TMS
 - Video picture via Video Downlink Receiver
- Multiple sources with multiple formats, much of it proprietary



What the Solution Needs To Do

- Bring disparate information from numerous sources together for sharing with the JTAC
- Collocate with many of the data sources, e.g. BMS and TMS
- Receive Link-16 air picture



The Solution

- The Gateway is the current method of fusing multiple data sources into a common standard

*"Gateway: a solution that provides **seamless interoperability** between two or more different datalinks. It provides **translation and forwarding** to these networks taking into account the different speeds of the networks"*

- Small, light weight, portable and cost effective gateways across the battlefield
- Provides the mechanism to collect and share key information with JTAC as well as a wider audience



Networked Tactical Gateway

- ✓ Connectivity to Link-16 network (for air picture)
- ✓ Connectivity to V/UHF and EPLRS network (for ground picture via BMS/TMS and AFATDS)
- ✓ Connectivity to JARN for air support requests
- ✓ Connectivity to SATCOM and HF network (for BLOS sharing)

