

AFCEA Quantico Chapter Luncheon 2018

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19 Jan 2018

Good morning ladies and gentlemen. Thank you for inviting me to speak today. When the invite arrived I was not quite sure what I would speak about today and actually, I didn't figure that out until earlier this week. My EA, Captain Jake Yeager reached out and asked the Point of Contact, Mr. Chris Sample, what would be good for the members assembled here today....and so, I was able to focus my discussion a bit. I say discussion because at the end of my remarks I'd like to have a dialogue about what AFCEA and our industry partners can do to help us think through some of the really tough decisions that we will need to make IOT help the CMC build the Future Force 2025 Marine Corps that can operate, fight, and win decisively in the Future Operating Environment. That FOE is characterized by

- Technology proliferation
- Complex terrain
- Battle of Signatures
- Information as a Weapon
- Contested Maritime Domain

So...

About two years ago the CMC directed that we design a Force, FF2025, that can operate, fight, and win in the IE – he recognized that we were not currently manned, trained, equipped for the FOE. And so we started shaping the FF and have stood up the DC I IOT help

develop our war fighting capability to get at the multi-domain and cognitive fight that we envision; given all the discussions and evidence we've had and seen over the last several years – Crimea, South China Sea, Information threats to our democratic process and, of course, for some of you currently designing and protecting our networks, countless unnamed attacks.

So that is the backdrop to what this dialogue is about: Operating, Fighting, and winning decisively in the Information Environment.

My role as the DIRINT in helping us operate, fight, and win decisively is to help the CMC with his Title 10 responsibility of man, train, equip our Intel formations primarily and the Corps as a whole generally. And this man, train, and equip role will form the basis for my 15-20 minute discussion today.

We now have a Deputy Commandant for Information. The Deputy Commandant for Information is responsible for developing a coherent and synchronized Information Environment capability to include:

- Intel
- C4
- IO
- EW
- Civil Affairs

He is charged with integrating and synchronizing an approach that allows those war-fighting capabilities to be effective and decisive in the future OE.

Across the force, we've added or modified structure IOT evolve into a force that will not only operate in the IE, but operate, fight, and win decisively in it.

- MEF Information Group – to operationalize IEO for the MEFs

- EWST @ Bn level to employ electronic fires/countermeasures

- WISC/Bns @ Wings for F-35 advantage

In addition to what we have done at the HQMC level we continue to build a Marine Corps ISR Enterprise (MCISRE) that is always on and capable of providing support to deployed MAGTFs anywhere in the world through forward deployed forces as well as federated reach back across the MEFs and MCIA.

We have stood up a PED capability at MCIA and are expanding that capability across the MEFs and MARSOC IOT prepare for the arrival of a Marine Corps Group 5 capability and to support the Joint Force as able.

We have implemented a Talent Development process across the MCISRE to help us get our Marine leaders better prepared for the cognitive battle as well as develop capabilities at the right time and place we need them.

We have begun to modernize our MOSs to meet the need of the FOE.

Nonetheless, to realize the true potential of the MCISRE we need your help...

This is where I reach out to shake your hand (hand gesture). And then, in proper Marine fashion I ask for something.

1. We require a network and its data to be agile → we move around, we disconnect and need to reconnect; we need agility in our networks.

2. We require resiliency and data integrity. We are up close and personal with our adversaries AND we have data @ rest around our formations; we need resiliency and data integrity IOT make sound and timely decisions at the lowest levels.
3. We require redundancy not just in our systems but in our ability to act as an Enterprise (both within the MCISRE and as part of the greater DoD/IC). Purpose built redundancy that is coordinated, tested, exercised, planned for and made part of the way we do business as Intel professionals.
4. We need data analytics that can handle vast amounts of data that help lower the cognitive burden on our greatest asset, our Marines.
5. We must harness Artificial Intelligence in a way that allows for a man-machine interface that we can train with, teach to, and educate our force to take advantage of AI in a way that provides us a qualitative advantage over our adversaries.
6. For academia, we require the very best people – we need more science and technology education up front. We need well prepared men and women to fill our ranks. Character matters too...
7. We need a way to structure our data so that it can be ingested
8. Whatever you design, build, and code needs to be rugged, man portable, energy efficient, self-healing, with smart network peripherals that are capable of handling all the challenges the FOE entails; we need agility, resiliency/data integrity, redundancy, man-machine interface, scalable, and able to be utilized by Marines both in garrison and forward deployed.

9. Finally, we need someone to help us develop the tools and courseware that allows us to immerse our Marines in a training and education environment that can be modified to fit the individual Marine (a go at your own pace type of capability that we can tailor for the individual), it needs to be interactive, it needs to be networked so that we can train in Quantico as well as in Okinawa or aboard ship if required.

As the Marine Corps refines our operating concepts IOT operate, fight, and win decisively in the IE, we will need help from not only government, but academia and industry. AFCEA provides us a venue into what is possible and we want and need to take advantage of your placement and access into industry and academia.

On behalf of the DC I we want to have a dialogue that helps us get at what I have described above and some items that will surely become apparent as we move ever closer to the Future Operating Environment...

Thank you for allowing me to speak and share my thoughts on the future OE.