

US and Swedish Industrial Support to Network Centric Warfare for US and Swedish Forces

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The commercial technology leap

World's most advanced radio in 1983

World's most advanced radio in 2003



Price: US\$ 400

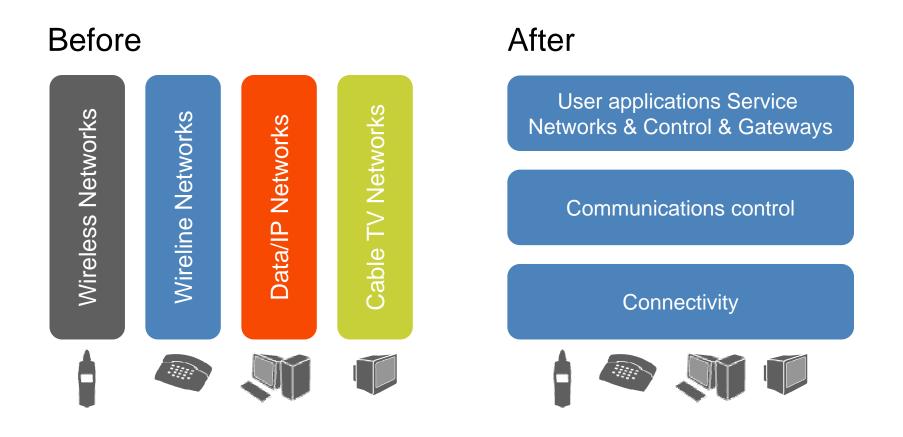
Production: 20 000 000 pcs.

Price: US\$ 20 000

Production: 200 000 pcs.



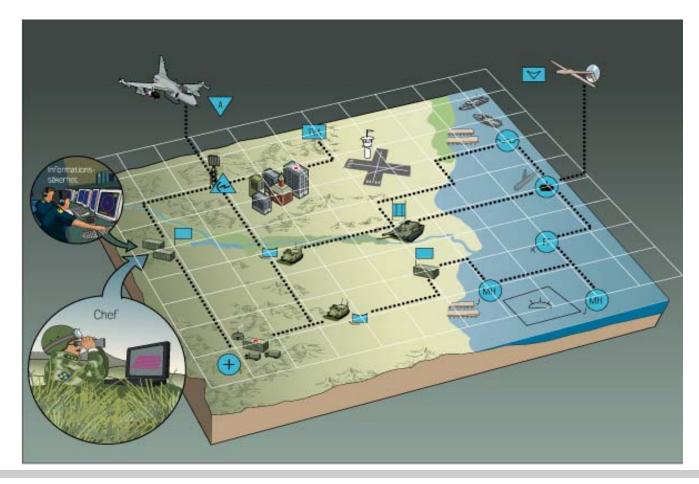
Multi-service communications architecture





Network based defense

Commanders, information and weapon systems in one network





Key network characteristics - enablers for efficient decision cycles

- Full connectivity "anything to anyone"
 Commanders, units and physical resources are fully interconnected for joint operations at any level
- Full mobility "anywhere, anytime"

 An individual's access to C4ISR functions relates to his/hers current role, irrespective of geographic location or type of access terminal
- Full flexibility "just in time, on demand"

 The command structure is independent of the physical communication structure situation specific decision cycles may emerge

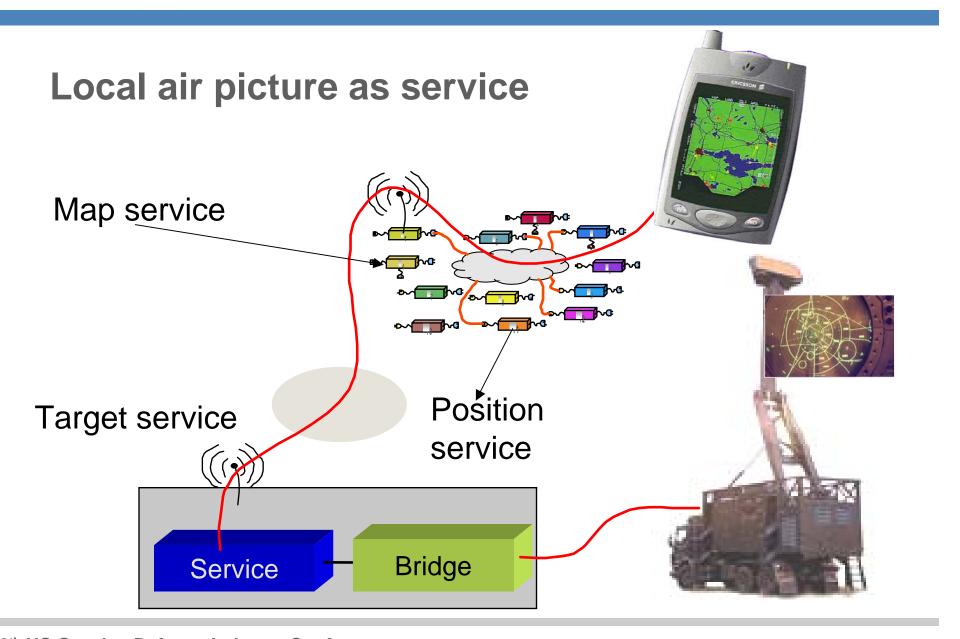


Ericsson Microwave Systems

Radars for Airborne, Ground and Naval Applications

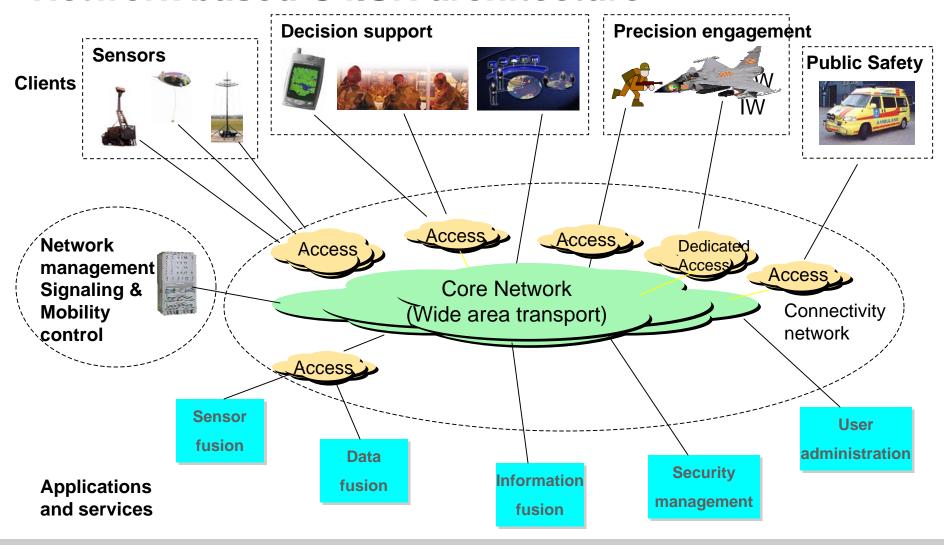








Network based C4ISR architecture





Development of civil communication systems

Industry sets the standards



 Suppliers develop to standards => products available offthe-shelf



Life cycle of civilian communication systems

- The industry continuously updates standards
 - Capabilities and features added in new standards releases
- Operators buy at best price/performance ratio
- Long-term relations between operator and supplier





Current military model for COTS acquisition

- The military sets the requirements
- Contracted integrators start looking for COTS that fit the requirements
- A strong urge to modify COTS prevails in order to fully meet specs
- The result:
 - COTS cease to exist
 - out of sync with standards releases
 - equipment rapidly becomes obsolete => no support from suppliers



Final remark

- NBD has come to stay
- NBD means a new way of operating, not only a technology shift
- Both military and commercial technology will play a roll to meet the requirements, at an affordable cost
- Commercial technology requires a new behavior in procurement, operation and training
- Industry can support in the paradigm shift!

