

SMARTNET
ARC 4000 Master Site
Current 7.X Master Site

Capacity and Feature Comparison Charts

High Level Comparison

High Level Comparison	SMARNET	ARC 4000 Master Site	Current ASTRO 25 Master Site
System Size	SN II+ - 28 channels 10 site Simulcast SN/ASTRO – 28 channels No Simulcast	Small Systems 1 to 12 Repeater Sites 1 to 120 Channels Simulcast - Future	Small to Nation Wide 1 to 100 Sites per zone 1 to 700 Channels per zone Repeater and Simulcast
Frequency Bands	800MHz, 900MHz UHF • 380 to 520MHz VHF •136 to 174MHz	700MHz, 800MHz UHF • 380 to 520MHz VHF •136 to 174MHz	700MHz, 800MHz UHF • 380 to 520MHz VHF •136 to 174MHz
Encryption Types	DES-XL DVI-XL / DVP-XL	DES-OFB / DES-XL AES DVI-XL / DVP-XL ADP	DES-OFB / DES-XL AES, DVI-XL / DVP-XL ADP
Trunking Control Channel Rate	3600 bps	9600 bps	9600 bps
Redundant Design	Non-redundant and Redundant	Non-redundant and Redundant	Redundant
Dispatch Solutions	CENTRACOM Gold	CENTRACOM Gold and MCC 7500	CENTRACOM Gold and MCC 7500
Data	via TIMI/TDC	IV&D (HPD Planned – Q4 2007)	IV&D and HPD
Data Applications	TDC – Trunked Data Controller	OTAR, POP25, Outdoor Location	OTAR, POP25, Outdoor Location
Subscribers		All ASTRO 25 Subscribers & Data Devices	All ASTRO 25 Subscribers & Data Devices
Information Assurance	N/A	Entry Level	NIST, DIACAP

Master Site Functionalities

Functionality	SMARTNET	ASTRO 25 ARC 4000 Master Site	ASTRO 25 7.X Current Master Site
IV&D	N/A	Yes	Yes
HPD	N/A	No (Q4 2007)	Yes
Data Applications	TDC	OTAR, Outdoor Location, POP25	OTAR, Outdoor Location, POP25
Customer Network Interface	N/A	Yes (1)	Yes (10)
Console Op Roaming Profiles	N/A	No	Yes
MOSCAD Interface to FullVision	N/A	Yes	Yes
Status Messaging	Yes	Yes	Yes
Voice E 2 E Encryption on MCC 7500	N/A	Yes	Yes
Information Assurance	N/A	Manual downloads of Anti Virus updates for NM and MCC 7500 Clients	NIST, DIACAP
NM Application Reliability	N/A	1 Server Supports all NM Apps	1 server for each NM App
Redundancy			
Zone Controller	N/A	Non Redundant and Redundant	Redundant Only
Gateway Routers	N/A	Non Redundant and Redundant	Redundant Only
Site Links	Non-Redundant Only	Non-Redundant Only	Non Redundant and Redundant
Site Routers	N/A	Non Redundant and Redundant	Non Redundant and Redundant

System Level Capacities

System / Network Management Capacities	SMARTNET	ARC 4000 Master Site Capacity Per Zone	7.X Full Master Site Capacity Per Zone
Zones	N/A	1	7
Total System Channels	28 x # of Simulcast sites	1 to 120	700 per Zone
Repeater Sites	10 max	12 max	100
Simulcast /Receiver Voting Sites	Yes	Not Supported	Supported
Channels per Repeater Site	28	28	28
Talkgroups	4096/2 – using Priority Monitor	500	16,000
Individual IDs	64,000	10,000	64,000
Combined Total NM Simultaneous Sessions	N/A	3	32
Max. Simultaneous Dynamic Report Application Users	N/A	3	5
Max. Simultaneous Zone Watch Application Users	N/A	3	5
Max. Simultaneous Zone Historical Reports Application Users	N/A	3	10

Wireline Console Capacities

Wireline Dispatch Capacities	SMARTNET (CENTRACOM only)	ARC 4000 Master Site Capacity Per Zone	7.X Full Master Site Capacity Per Zone
Analog Conventional Channels through interface to the MCC 7500	N/A	100	700
Analog Conventional Channels through interface to the CENTRACOM Gold	Defined through AEB	100	Defined through AEB
Max. Dispatch Sites	32 (CEB)	5	55
Max Dispatch Ops	@400	10	250
Max Dispatch Ops per Dispatch Site	30	10	50
Analog Conventional Channels per Console Operator Position	60	60	71
Affiliated Talkgroup IDs per Console Operator Position	120	60	71
Simultaneous Audio Sessions per Console Operator Position	120	60	72

Network Management Operation

Functionality	SMARTNET	ASTRO 25 ARC 4000 Master Site	ASTRO 25 7.X Full Master Site
Network Management Backup	SAC backup to HD	DVD Only	Tape Only
Simultaneous NM Sessions	N/A	3	32
System Statistics Server	Yes (Site Lens)	No	Yes
Live Database Upgrades	N/A	No	Yes
CADI	Yes	No	Yes
Dynamic Shared Services	N/A	No	Yes
Inter Zone Operation	N/A	No	Yes
Home Zone Mapping	N/A	No	Yes
Info Vista	N/A	No	Yes
Life Database Upgrades	N/A	No	Yes

Data Operation

Integrated Data Capacities	ARC 4000 Master Site Capacity Per Zone	7.X Full Master Site Capacity Per Zone
Customer Network Interfaces	1	10
IV&D Data Users	2,000	20,000
Max. Messages per hour – System (Public Safety Profile)	300,000	300,000
Max. Messages per Hour - Site	15,000	15,000
Max. Messages per Hour - Channel	5,000	5,000
Max. Data Channels per Site	3	3