USMC Network Design Facility

Network Description Documentation

AMCT0005B

prepared by:

USMC Network Design Facility
Marine Corps Tactical Systems Support Activity

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WARNING WARNING WARNING

Warning: Modification of this network by unauthorized personnel is in violation of the CJCSI 6232.021A (01 JUN 1998) on Deconfliction

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AMCT0005B
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Executive Summary

Network:	AMCT0005B	**Created for:** MCTSSA Testing		
Use Limitations:	IPF OVERRIDE = 100/50			
Participants:	USMC Platforms	USN Platforms	USA Platforms	USAF Platforms
	3 ADCP 3 JTAOM 2 MCTSSA			
Operational Summary:	Highest Platform TSDF = 21.62%			
Network Requested by:	MCTSSA			
Send comments and Recommendations to:	USMC Network Design Facility Attn: AD-09 (MCNDF) Box 555171 Camp Pendleton, CA 92055-5171 E-mail: mcndf@mctssa.usmc.mil Website: http://www.mctssa.usmc.mil Telephone: DSN 365-2796/2133 COMM (760) 725-2796/2133			

AMCT0005B
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Introduction

Network AMCT0005B was developed by the Marine Corps Network Design Facility to support testing among Marine Corps Platforms. It consists of the following participants: ADCP (1), ADCP (2), ADCP (3), JTAOM (1), JTAOM (2), JTAOM (3), MCTSSA (1), and MCTSSA (2).

Purpose

The Purpose of this documentation is to describe Network AMCT0005B. It was created to allow initialization and communications of tactical data between all participating units. This documentation and appropriate loading data is being delivered to the appropriate Marine Corps units.

Notes

1. The network's **IPF Override** is set to **1-100/50**, the **TSDF** is set to **100/50**, the **Communications Mode** is set to **Mode 1**, the **TDMA Range** is **300 nmi**, the **TSEC** is set to **1**, and the **MSEC** is set to **1.**

2. **Voice Communications** will be available in 16 Kbps and 2.4 Kbps.

3. There are **no Options Pools.**

4. **JICO oversees all responsibility in managing the network TSDF, NTS, and Relay assignments.**

5. **JTAOM (3)** will provide **all relays.**

1.0 Functional Description

This network was created for in house testing at MCTSSA.

1.1 Operational Summary

1. 100/50 with 16 Kbps and 2.4 Kbps voice.
2. All participants do not have line of sight with every other participant. The JTAOM (3) will provide relay for all participants.
3. Each participant provides network management, surveillance, mission management, and weapons coordination. JTAOM (1), JTAOM (2), and JTAOM (3) have 16 Kbps and 2.4 Kbps voice capabilities.

1.2 Use Limitations

1. IPF Override = 100/50
2. 2.4 Kbps and 16Kbps JTIDS Voice.

2.0 Participants

USMC Platforms	USN Platforms	USA Platforms	USAF Platforms
3 ADCP	None	None	None
3 JTAOM			
2 MCTSSA			

2.1 Network Participation Groups

NPG #3 (RTT-B)

Participants:	All units.
Access:	Contention (4)
Capacity:	8 slots/frame
Assigned Net:	0

NPG #4 (Network Management)

Participants:	JTAOM (1), JTAOM (2), JTAOM (3)
Access:	Dedicated
Capacity:	4 & 2 slots/frame
Relay:	JTAOM(3)
Packing Limit:	P4

NPG #6 (PPLI-B)

Participants:	All units. ADCP(1), ADCP(2), ADCP(3), JTAOM(1), JTAOM(2), & JTAOM(3) transmit and receive. MCTSSA(1) & MCTSSA(2) receive only.
Access:	Dedicated
Capacity:	5 & 1 slots/frame
Assigned Net:	0
Relay:	JTAOM(3)
Packing Limit:	P4

NPG #7 (Surveillance)

Participants:	ADCP(1), ADCP(2), ADCP(3), JTAOM(1), & JTAOM(2) transmit and receive. MCTSSA(1) & MCTSSA(2) receive only.
Access:	Dedicated
Capacity:	32, 36, & 64 slots/frame
Assigned Net:	0
Relay:	JTAOM(3)
Packing Limit:	P4

NPG #8 (Weapons Coordination and Mission Management)

Participants:	ADCP(1), ADCP(2), ADCP(3), JTAOM(1), JTAOM(2) & JTAOM(3) transmit and receive. MCTSSA(1) & MCTSSA(2) receive only.
Access:	Dedicated
Capacity:	8 & 40 slots/frame
Assigned Net:	0
Relay:	JTAOM(3)
Packing Limit:	P4

NPG #12 (Voice A)

Participants:	JTAOM(1), JTAOM(2) & JTAOM(3) transmit and receive. MCTSSA(1) & MCTSSA(2) receive only
Access:	Reuse
Capacity:	64 slots/frame
Assigned Net:	127
Relay:	JTAOM(3)
Packing Limit:	P2SP

NPG #13 (Voice B)

Participants:	JTAOM(1), JTAOM(2) & JTAOM(3) transmit and receive. MCTSSA(1) & MCTSSA(2) receive only.
Access:	Reuse
Capacity:	224 slots/frame
Assigned Net:	127
Relay:	JTAOM(3)
Packing Limit:	P2SP

Appendix A

CONNECTIVITY MATRIX
PULSE DENSITY REPORT
ALLOCATION TABLE
COMSEC CROSS REFERENCE TABLE
TIME LINE DISPLAY
NDL FILE NAME TABLE

Connectivity Matrix for Network: AMCT0005B

Slot Group			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
NPG Number			3	6	TY	6	4	TY	4	7	7	TY	7	TY	8	8	TY	12	TY	13	TY
Net Number			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127	127	127	127
TSEC Variable			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MSEC Variable																					
Access Mode			4	D		D	D		D	D	D		D		D	D		R		R	
Packing Limit				P4		P4	P4		P4	P4	P4		P4		P4	P4		P2SP		P2SP	
Per Unit Slots/Frame				1			2				32		12			8					
Total Slots/Frame			8	5	5	1	4	4	2	32	64	64	36	36	8	40	40	64	64	224	224
Participant ID	Net Entry Transmit Enabled	Default Net	Connectivity																		
1.ADCP(1)	N	0	T	T/R	R	R	R	R	R	R	R	R	T/R	R	R	T/R	R				
2.ADCP(2)	N	0	T	T/R	R	R	R	R	R	R	R	R	T/R	R	R	T/R	R				
3.ADCP(3)	N	0	T	T/R	R	R	R	R	R	R	R	R	T/R	R	R	T/R	R				
4.TAOM(1)	N	0	T	T/R	R	R	T/R	R	R	R	T/R	R	R	R	R	T/R	R	T	R	T	R
5.TAOM(2)	N	0	T	T/R	R	R	T/R	R	R	R	T/R	R	R	R	R	T/R	R	T	R	T	R
6.TAOM(3)	N	0	T	R	Y	T	R	Y	T	T	R	Y	R	Y	T	R	Y	T	VY	T	VY
7.MCTSSA(1)	N	0	T	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R	
8.MCTSSA(2)	N	0	T	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R	

Pulse Density Report for Network: AMCT0005B

Check for active platform	Participant	Data Without Relay	Data With Relay
	ADCP(1)	2.45%	2.45%
	ADCP(2)	2.45%	2.45%
	ADCP(3)	2.45%	2.45%
	JTAOM(1)	4.92%	4.92%
	JTAOM(2)	4.92%	4.92%
	JTAOM(3)	4.92%	21.62%
	MCTSSA(1)	0.10%	0.10%
	MCTSSA(2)	0.10%	0.10%
If the Frequency Assignment authorizes TADIL-J Voice, add the below percentages to the above platforms transmitting TADIL- J voice.			
		Without Relay	With Relay
2.4 Kbps	VOICE A	4.17%	16.67%
16 Kbps	VOICE B	14.58%	58.33%

Example of TSDF Calculation

JTAOM (1): (Data with Relay = 4.92% + (Voice 'A' with Relay = 16.67%)
Total Data/Voice with Relay = 21.59%

In the above example you would enter the result into the Deconfliction Server. Other platform results may vary if Voice or Relay is used.

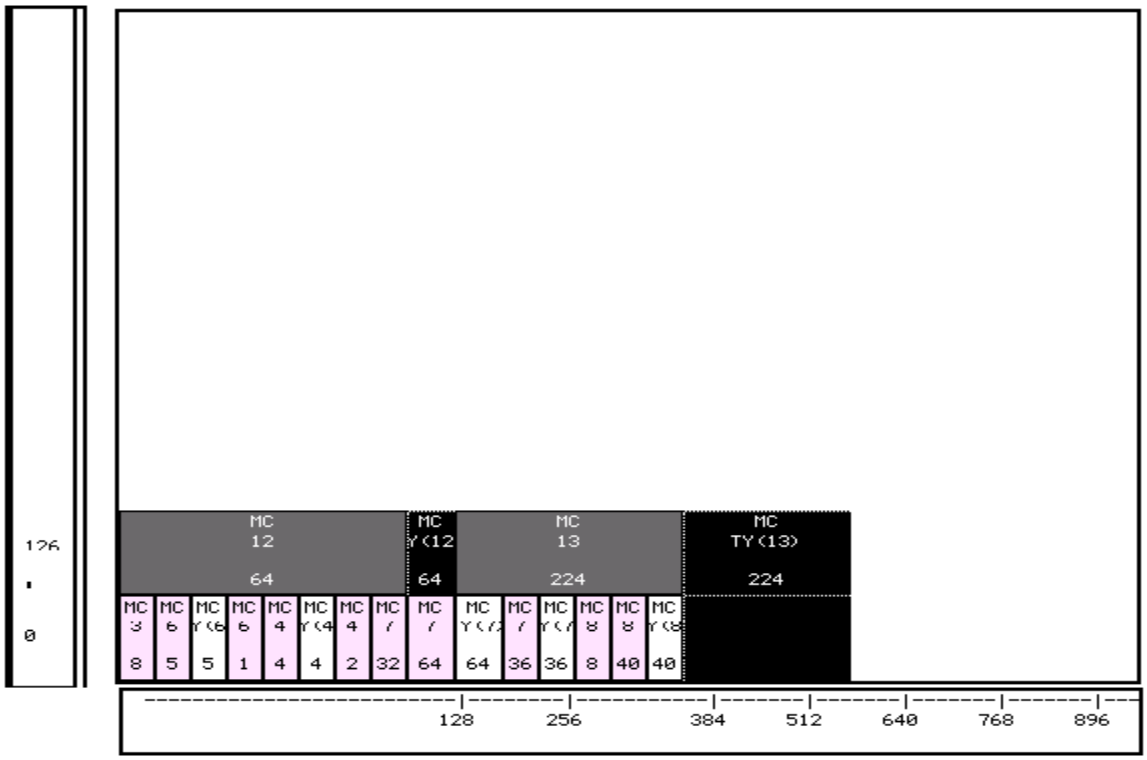
Allocation Table for Network: AMCT0005B

SB / Agg	Net Req.	Net	Set	Idx	RRN
1.1	0	0	A	41	9
2.1	0	0	A	57	8
2.2	0	0	A	197	6
3.1	0	0	A	61	8
3.2	0	0	A	203	6
4.1	0	0	A	453	6
5.1	0	0	A	121	8
6.1	0	0	A	125	8
7.1	0	0	A	69	7
8.1	0	0	A	1	11
9.1	0	0	A	0	12
10.1	0	0	A	4	12
11.1	0	0	A	2	11
11.2	0	0	A	5	8
12.1	0	0	A	10	11
12.2	0	0	A	11	8
13.1	0	0	A	25	9
14.1	0	0	A	6	11
14.2	0	0	A	9	9
15.1	0	0	A	14	11
15.2	0	0	A	13	9
16.1	127	127	A	7	12
17.1	127	127	C	0	12
18.1	127	127	B	0	13
18.2	127	127	B	2	12
18.3	127	127	B	6	11
19.1	127	127	C	3	13
19.2	127	127	C	5	12
19.3	127	127	C	9	11

COMSEC Cross reference Table for Network: AMCT0005B

Default MSEC = 1			Default TSEC = 1		
SDU Locations					
Participant	0/1	2/3	4/5	6/7	Overflow
ADCP(1)	1				
ADCP(2)	1				
ADCP(3)	1				
TAOM(1)	1				
TAOM(2)	1				
TAOM(3)	1				
MCTSSA(1)	1				
MCTSSA(2)	1				

Time Line Display for Network: AMCT0005B



Total Slots/Frame

Note: Not to Scale

NDL File Name Table

Network Platform Name	File Name/Network Used By Host System
Marine Corps Platforms	
JTAOM (1)	TAOM1_37.PF
JTAOM (2)	TAOM2_37.PF
JTAOM (3)	TAOM3_37.PF
ADCP (1)	ADCP1_37.PF
ADCP (2)	ADCP2_37.PF
ADCP (3)	ADCP3_37.PF
MCTSSA (1)	MCTS1_37.PF
MCTSSA (2)	MCTS2_37.PF

Appendix B

SHORT FORM REPORT FOR ADCP(1)
SHORT FORM REPORT FOR ADCP(2)
SHORT FORM REPORT FOR ADCP(3)
SHORT FORM REPORT FOR JTAOM (1)
SHORT FORM REPORT FOR JTAOM (2)
SHORT FORM REPORT FOR JTAOM (3)
SHORT FORM REPORT FOR MCTSSA(1)
SHORT FORM REPORT FOR MCTSSA(2)

Participant ADCP(1)

Participant	Block Id. No.	Slot Type	Msg Cat	Total Slots Req'd	Slot Blocks Req'd	Slot Group A=Agg	Slot Group Elem.	Set	Index	RRN	Net	Relay Delay
ADCP(1)	1	T	3	8	8	1.1	0	A	41	9	0	0
	2	T	6	1	1	2.1	1	A	57	6	0	0
	3	T	7	12	8	11.1	1	A	2	9	0	0
	4	T	7		4	11.1	1	A	50	8	0	0
	5	T	8	8	8	14.1	1	A	6	9	0	0
	6	R	6	5	4	2.1	0	A	57	8	0	0
	7	R	6		1	2.2	0	A	197	6	0	0
	8	R	6	5	4	3.1	0	A	61	8	0	0
	9	R	6		1	3.2	0	A	203	6	0	0
	10	R	6	1	1	4.1	0	A	453	6	0	0
	11	R	4	4	4	5.1	0	A	121	8	0	12
	12	R	4	2	2	7.1	0	A	69	7	0	0
	13	R	7	32	32	8.1	0	A	1	11	0	0
	14	R	7	64	64	9.1	0	A	0	12	0	0
	15	R	7	64	64	10.1	0	A	4	12	0	0
	16	R	7	36	32	11.1	0	A	2	11	0	0
	17	R	7		4	11.2	0	A	5	8	0	0
	18	R	7	36	32	12.1	0	A	10	11	0	0
	19	R	7		4	12.2	0	A	11	8	0	0
	20	R	8	8	8	13.1	0	A	25	9	0	0
	21	R	8	40	32	14.1	0	A	6	11	0	24
	22	R	8		8	14.2	0	A	9	9	0	12

Participant ADCP(2)

Participant	Block Id. No.	Slot Type	Msg Cat	Total Slots Req'd	Slot Blocks Req'd	Slot Group A=Agg	Slot Group Elem.	Set	Index	RRN	Net	Relay Delay
ADCP(2)	1	T	3	8	8	1.1	0	A	41	9	0	0
	2	T	6	1	1	2.1	2	A	313	6	0	0
	3	T	7	12	8	11.1	2	A	34	9	0	0
	4	T	7		4	11.1	2	A	114	8	0	0
	5	T	8	8	8	14.1	2	A	38	9	0	0
	6	R	6	5	4	2.1	0	A	57	8	0	0
	7	R	6		1	2.2	0	A	197	6	0	0
	8	R	6	5	4	3.1	0	A	61	8	0	0
	9	R	6		1	3.2	0	A	203	6	0	0
	10	R	6	1	1	4.1	0	A	453	6	0	0
	11	R	4	4	4	5.1	0	A	121	8	0	12
	12	R	4	2	2	7.1	0	A	69	7	0	0
	13	R	7	32	32	8.1	0	A	1	11	0	0
	14	R	7	64	64	9.1	0	A	0	12	0	0
	15	R	7	64	64	10.1	0	A	4	12	0	0
	16	R	7	36	32	11.1	0	A	2	11	0	0
	17	R	7		4	11.2	0	A	5	8	0	0
	18	R	7	36	32	12.1	0	A	10	11	0	0
	19	R	7		4	12.2	0	A	11	8	0	0
	20	R	8	8	8	13.1	0	A	25	9	0	0
	21	R	8	40	32	14.1	0	A	6	11	0	24
	22	R	8		8	14.2	0	A	9	9	0	12

Participant ADCP(3)

Participant	Block Id. No.	Slot Type	Msg Cat	Total Slots Req'd	Slot Blocks Req'd	Slot Group A=Agg	Slot Group Elem.	Set	Index	RRN	Net	Relay Delay
ADCP(3)	1	T	3	8	8	1.1	0	A	41	9	0	0
	2	T	6	1	1	2.1	3	A	185	6	0	0
	3	T	7	12	8	11.1	3	A	18	9	0	0
	4	T	7		4	11.2	3	A	5	8	0	0
	5	T	8	8	8	14.1	3	A	22	9	0	0
	6	R	6	5	4	2.1	0	A	57	8	0	0
	7	R	6		1	2.2	0	A	197	6	0	0
	8	R	6	5	4	3.1	0	A	61	8	0	0
	9	R	6		1	3.2	0	A	203	6	0	0
	10	R	6	1	1	4.1	0	A	453	6	0	0
	11	R	4	4	4	5.1	0	A	121	8	0	12
	12	R	4	2	2	7.1	0	A	69	7	0	0
	13	R	7	32	32	8.1	0	A	1	11	0	0
	14	R	7	64	64	9.1	0	A	0	12	0	0
	15	R	7	64	64	10.1	0	A	4	12	0	0
	16	R	7	36	32	11.1	0	A	2	11	0	0
	17	R	7		4	11.2	0	A	5	8	0	0
	18	R	7	36	32	12.1	0	A	10	11	0	0
	19	R	7		4	12.2	0	A	11	8	0	0
	20	R	8	8	8	13.1	0	A	25	9	0	0
	21	R	8	40	32	14.1	0	A	6	11	0	24
	22	R	8		8	14.2	0	A	9	9	0	12

Participant JTAOM (1)

Participant	Block Id. No.	Slot Type	Msg Cat	Total Slots Req'd	Slot Blocks Req'd	Slot Group A=Agg	Slot Group Elem.	Set	Index	RRN	Net	Relay Delay
JTAOM(1)	1	T	3	8	8	1.1	0	A	41	9	0	0
	2	T	6	1	1	2.1	4	A	441	6	0	0
	3	T	4	2	2	5.1	1	A	121	7	0	0
	4	T	7	32	32	9.1	1	A	0	11	0	0
	5	T	8	8	8	14.1	4	A	54	9	0	0
	6	T	12	64	64	16.1	0	A	7	12	127	29
	7	T	13	224	128	18.1	0	B	0	13	127	10
	8	T	13		64	18.2	0	B	2	12	127	10
	9	T	13		32	18.3	0	B	6	11	127	10
	10	R	6	5	4	2.1	0	A	57	8	0	0
	11	R	6		1	2.2	0	A	197	6	0	0
	12	R	6	5	4	3.1	0	A	61	8	0	0
	13	R	6		1	3.2	0	A	203	6	0	0
	14	R	6	1	1	4.1	0	A	453	6	0	0
	15	R	4	4	4	5.1	0	A	121	8	0	12
	16	R	4	2	2	7.1	0	A	69	7	0	0
	17	R	7	32	32	8.1	0	A	1	11	0	0
	18	R	7	64	64	9.1	0	A	0	12	0	0
	19	R	7	64	64	10.1	0	A	4	12	0	0
	20	R	7	36	32	11.1	0	A	2	11	0	0
	21	R	7		4	11.2	0	A	5	8	0	0
	22	R	7	36	32	12.1	0	A	10	11	0	0
	23	R	7		4	12.2	0	A	11	8	0	0
	24	R	8	8	8	13.1	0	A	25	9	0	0
	25	R	8	40	32	14.1	0	A	6	11	0	24
	26	R	8		8	14.2	0	A	9	9	0	12

Participant JTAOM (2)

Participant	Block Id. No.	Slot Type	Msg Cat	Total Slots Req'd	Slot Blocks Req'd	Slot Group A=Agg	Slot Group Elem.	Set	Index	RRN	Net	Relay Delay
JTAOM(2)	1	T	3	8	8	1.1	0	A	41	9	0	0
	2	T	6	1	1	2.2	5	A	197	6	0	0
	3	T	4	2	2	5.1	2	A	249	7	0	0
	4	T	7	32	32	9.1	2	A	8	11	0	0
	5	T	8	8	8	14.2	5	A	9	9	0	0
	6	T	12	64	64	16.1	0	A	7	12	127	29
	7	T	13	224	128	18.1	0	B	0	13	127	10
	8	T	13		64	18.2	0	B	2	12	127	10
	9	T	13		32	18.3	0	B	6	11	127	10
	10	R	6	5	4	2.1	0	A	57	8	0	0
	11	R	6		1	2.2	0	A	197	6	0	0
	12	R	6	5	4	3.1	0	A	61	8	0	0
	13	R	6		1	3.2	0	A	203	6	0	0
	14	R	6	1	1	4.1	0	A	453	6	0	0
	15	R	4	4	4	5.1	0	A	121	8	0	12
	16	R	4	2	2	7.1	0	A	69	7	0	0
	17	R	7	32	32	8.1	0	A	1	11	0	0
	18	R	7	64	64	9.1	0	A	0	12	0	0
	19	R	7	64	64	10.1	0	A	4	12	0	0
	20	R	7	36	32	11.1	0	A	2	11	0	0
	21	R	7		4	11.2	0	A	5	8	0	0
	22	R	7	36	32	12.1	0	A	10	11	0	0
	23	R	7		4	12.2	0	A	11	8	0	0
	24	R	8	8	8	13.1	0	A	25	9	0	0
	25	R	8	40	32	14.1	0	A	6	11	0	24
	26	R	8		8	14.2	0	A	9	9	0	12

Participant JTAOM (3)

Participant	Block Id. No.	Slot Type	Msg Cat	Total Slots Req'd	Slot Blocks Req'd	Slot Group A=Agg	Slot Group Elem.	Set	Index	RRN	Net	Relay Delay
JTAOM(3)	1	T	3	8	8	1.1	0	A	41	9	0	0
	2	T	6	1	1	4.1	0	A	453	6	0	0
	3	T	4	2	2	7.1	0	A	69	7	0	0
	4	T	7	32	32	8.1	0	A	1	11	0	0
	5	T	8	8	8	13.1	0	A	25	9	0	0
	6	T	12	64	64	16.1	0	A	7	12	127	0
	7	T	13	224	128	18.1	0	B	0	13	127	0
	8	T	13		64	18.2	0	B	2	12	127	0
	9	T	13		32	18.3	0	B	6	11	127	0
	10	Y	6	5	4	2.1	0	A	57	8	0	12
	11	Y	6		1	2.2	0	A	197	6	0	18
	12	Y	4	4	4	5.1	0	A	121	8	0	12
	13	Y	7	64	64	9.1	0	A	0	12	0	12
	14	Y	7	36	32	11.1	0	A	2	11	0	24
	15	Y	7		4	11.2	0	A	5	8	0	18
	16	Y	8	40	32	14.1	0	A	6	11	0	24
	17	Y	8		8	14.2	0	A	9	9	0	12
	18	Y	12	64	64	16.1	0	A	7	12	127	29
	19	Y	13	224	128	18.1	0	B	0	13	127	10
	20	Y	13		64	18.2	0	B	2	12	127	10
	21	Y	13		32	18.3	0	B	6	11	127	10

Participant MCTSSA (1)

Participant	Block Id. No.	Slot Type	Msg Cat	Total Slots Req'd	Slot Blocks Req'd	Slot Group A=Agg	Slot Group Elem.	Set	Index	RRN	Net	Relay Delay
MCTSSA(1)	1	T	3	8	8	1.1	0	A	41	9	0	0
	2	R	6	5	4	2.1	0	A	57	8	0	0
	3	R	6		1	2.2	0	A	197	6	0	0
	4	R	6	5	4	3.1	0	A	61	8	0	0
	5	R	6		1	3.2	0	A	203	6	0	0
	6	R	6	1	1	4.1	0	A	453	6	0	0
	7	R	4	4	4	5.1	0	A	121	8	0	12
	8	R	4	2	2	7.1	0	A	69	7	0	0
	9	R	7	32	32	8.1	0	A	1	11	0	0
	10	R	7	64	64	9.1	0	A	0	12	0	0
	11	R	7	64	64	10.1	0	A	4	12	0	0
	12	R	7	36	32	11.1	0	A	2	11	0	0
	13	R	7		4	11.2	0	A	5	8	0	0
	14	R	7	36	32	12.1	0	A	10	11	0	0
	15	R	7		4	12.2	0	A	11	8	0	0
	16	R	8	8	8	13.1	0	A	25	9	0	0
	17	R	8	40	32	14.1	0	A	6	11	0	24
	18	R	8		8	14.2	0	A	9	9	0	12
	19	R	12	64	64	16.1	0	A	7	12	127	0
	20	R	13	224	128	18.1	0	B	0	13	127	0
	21	R	13		64	18.2	0	B	2	12	127	0
	22	R	13		32	18.3	0	B	6	11	127	0

Participant MCTSSA (2)

Participant	Block Id. No.	Slot Type	Msg Cat	Total Slots Req'd	Slot Blocks Req'd	Slot Group A=Agg	Slot Group Elem.	Set	Index	RRN	Net	Relay Delay
MCTSSA(2)	1	T	3	8	8	1.1	0	A	41	9	0	0
	2	R	6	5	4	2.1	0	A	57	8	0	0
	3	R	6		1	2.2	0	A	197	6	0	0
	4	R	6	5	4	3.1	0	A	61	8	0	0
	5	R	6		1	3.2	0	A	203	6	0	0
	6	R	6	1	1	4.1	0	A	453	6	0	0
	7	R	4	4	4	5.1	0	A	121	8	0	12
	8	R	4	2	2	7.1	0	A	69	7	0	0
	9	R	7	32	32	8.1	0	A	1	11	0	0
	10	R	7	64	64	9.1	0	A	0	12	0	0
	11	R	7	64	64	10.1	0	A	4	12	0	0
	12	R	7	36	32	11.1	0	A	2	11	0	0
	13	R	7		4	11.2	0	A	5	8	0	0
	14	R	7	36	32	12.1	0	A	10	11	0	0
	15	R	7		4	12.2	0	A	11	8	0	0
	16	R	8	8	8	13.1	0	A	25	9	0	0
	17	R	8	40	32	14.1	0	A	6	11	0	24
	18	R	8		8	14.2	0	A	9	9	0	12
	19	R	12	64	64	16.1	0	A	7	12	127	0
	20	R	13	224	128	18.1	0	B	0	13	127	0
	21	R	13		64	18.2	0	B	2	12	127	0
	22	R	13		32	18.3	0	B	6	11	127	0