

UTP Upgrade Quotation Services
 UDP/IP Protocol Standard: *MoldUDP64*
 Initial Release Date: *Release October 24, 2016*

Production Dissemination: Primary/Secondary Data Center					Retransmission Dissemination: Primary/Secondary Data Center				UTP Quotation Evening Test Broadcast Groups (effective February 2018)			
Site	Channel	Group	Port	Source IP Address	Channel	Group	Port	Source IP	Channel	Group	Port	Source IP
New York Metro Area "A" – *RP's 207.251.255.42	Broadcast – Channel 1 (A-CD)	233.46.176.0	55630	69.10.251.0/25	<i>Rerequest – Channel 1 (A-CD)</i>	233.46.176.0	55730	69.10.248.192	Test Broadcast – Channel 1 (A-CD)	233.46.176.48	55650	69.10.251.126
	Broadcast – Channel 2 (CE-FD)	233.46.176.1	55631		<i>Rerequest – Channel 2 (CE-FD)</i>	233.46.176.1	55731	69.10.248.193	Test Broadcast – Channel 2 (CE-FD)	233.46.176.49	55651	
	Broadcast – Channel 3 (FE-LK)	233.46.176.2	55632		<i>Rerequest – Channel 3 (FE-LK)</i>	233.46.176.2	55732	69.10.248.194	Test Broadcast – Channel 3 (FE-LK)	233.46.176.50	55652	
	Broadcast – Channel 4 (LL-PB)	233.46.176.3	55633		<i>Rerequest – Channel 4 (LL-PB)</i>	233.46.176.3	55733	69.10.248.195	Test Broadcast – Channel 4 (LL-PB)	233.46.176.51	55653	
	Broadcast – Channel 5 (PC-SP)	233.46.176.4	55634		<i>Rerequest – Channel 5 (PC-SP)</i>	233.46.176.4	55734	69.10.248.196	Test Broadcast – Channel 5 (PC-SP)	233.46.176.52	55654	
	Broadcast – Channel 6 (SQ-ZZ)	233.46.176.5	55635		<i>Rerequest – Channel 6 (SQ-ZZ)</i>	233.46.176.5	55735	69.10.248.197	Test Broadcast – Channel 6 (SQ-ZZ)	233.46.176.53	55655	
New York Metro Area "B" – *RP's 207.251.255.52	Broadcast – Channel 1 (A-CD)	233.46.176.16	55630	69.10.251.128/25	<i>Rerequest – Channel 1 (A-CD)</i>	233.46.176.16	55730	69.10.248.224	Data Center Redundancy not supported			
	Broadcast – Channel 2 (CE-FD)	233.46.176.17	55631		<i>Rerequest – Channel 2 (CE-FD)</i>	233.46.176.17	55731	69.10.248.225				
	Broadcast – Channel 3 (FE-LK)	233.46.176.18	55632		<i>Rerequest – Channel 3 (FE-LK)</i>	233.46.176.18	55732	69.10.248.226				
	Broadcast – Channel 4 (LL-PB)	233.46.176.19	55633		<i>Rerequest – Channel 4 (LL-PB)</i>	233.46.176.19	55733	69.10.248.227				
	Broadcast – Channel 5 (PC-SP)	233.46.176.20	55634		<i>Rerequest – Channel 5 (PC-SP)</i>	233.46.176.20	55734	69.10.248.228				
	Broadcast – Channel 6 (SQ-ZZ)	233.46.176.21	55635		<i>Rerequest – Channel 6 (SQ-ZZ)</i>	233.46.176.21	55735	69.10.248.229				
Chicago Metro Area "A" – U.S. *RP's 207.251.255.112	Broadcast – Channel 1 (A-CD)	233.46.176.64	55630	69.10.255.0/25	<i>Rerequest – Channel 1 (A-CD)</i>	233.46.176.64	55730	69.10.252.192	Data Center Redundancy not supported			
	Broadcast – Channel 2 (CE-FD)	233.46.176.65	55631		<i>Rerequest – Channel 2 (CE-FD)</i>	233.46.176.65	55731	69.10.252.193				
	Broadcast – Channel 3 (FE-LK)	233.46.176.66	55632		<i>Rerequest – Channel 3 (FE-LK)</i>	233.46.176.66	55732	69.10.252.194				
	Broadcast – Channel 4 (LL-PB)	233.46.176.67	55633		<i>Rerequest – Channel 4 (LL-PB)</i>	233.46.176.67	55733	69.10.252.195				
	Broadcast – Channel 5 (PC-SP)	233.46.176.68	55634		<i>Rerequest – Channel 5 (PC-SP)</i>	233.46.176.68	55734	69.10.252.196				
	Broadcast – Channel 6 (SQ-ZZ)	233.46.176.69	55635		<i>Rerequest – Channel 6 (SQ-ZZ)</i>	233.46.176.69	55735	69.10.252.197				
Chicago Metro Area "B" – U.S. *RP's 207.251.255.122	Broadcast – Channel 1 (A-CD)	233.46.176.80	55630	69.10.255.128/25	<i>Rerequest – Channel 1 (A-CD)</i>	233.46.176.80	55730	69.10.252.224	Data Center Redundancy not supported			
	Broadcast – Channel 2 (CE-FD)	233.46.176.81	55631		<i>Rerequest – Channel 2 (CE-FD)</i>	233.46.176.81	55731	69.10.252.225				
	Broadcast – Channel 3 (FE-LK)	233.46.176.82	55632		<i>Rerequest – Channel 3 (FE-LK)</i>	233.46.176.82	55732	69.10.252.226				
	Broadcast – Channel 4 (LL-PB)	233.46.176.83	55633		<i>Rerequest – Channel 4 (LL-PB)</i>	233.46.176.83	55733	69.10.252.227				
	Broadcast – Channel 5 (PC-SP)	233.46.176.84	55634		<i>Rerequest – Channel 5 (PC-SP)</i>	233.46.176.84	55734	69.10.252.228				
	Broadcast – Channel 6 (SQ-ZZ)	233.46.176.85	55635		<i>Rerequest – Channel 6 (SQ-ZZ)</i>	233.46.176.85	55735	69.10.252.229				

To minimize data loss, SIP provides primary and back-up groups for its data feed services (At two locations; New York Metro and Chicago Metro). The purpose of two host groups at these locations is to provide an extra layer of data redundancy within the extranet and end-user networks. By reading and utilizing both multicast groups into their production environment, IP multicast customers can help to protect themselves against network anomalies which could cause interruptions in data flow. To minimize data loss, UTP SIP strongly recommends that data feed customers process both the primary and back-up groups within their networks.

Rendezvous Point (RP) is a router in a multicast network domain that acts as a shared root for a multicast shared tree. Any number of routers can be configured to work as RPs and they can be configured to cover different group ranges.

UTP Upgrade Trade Services
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Production Dissemination: Primary/Secondary Data Center					Retransmission Dissemination: Primary/Secondary Data Center				UTP Trade Evening Test Broadcast Groups (effective February 2018)			
Site	Channel	Group	Port	Source IP Address	Channel	Group	Port	Source IP	Channel	Group	Port	Source IP
New York Metro Area "A" – *RP's 207.251.255.42	Broadcast – Channel 1 (A-CD)	233.46.176.8	55640	69.10.251.0/25	<i>Rerequest – Channel 1 (A-CD)</i>	233.46.176.8	55740	69.10.248.208	Test Broadcast – Channel 1 (A-CD)	233.46.176.56	55660	69.10.251.127
	Broadcast – Channel 2 (CE-FD)	233.46.176.9	55641		<i>Rerequest – Channel 2 (CE-FD)</i>	233.46.176.9	55741	69.10.248.209	Test Broadcast – Channel 2 (CE-FD)	233.46.176.57	55661	
	Broadcast – Channel 3 (FE-LK)	233.46.176.10	55642		<i>Rerequest – Channel 3 (FE-LK)</i>	233.46.176.10	55742	69.10.248.210	Test Broadcast – Channel 3 (FE-LK)	233.46.176.58	55662	
	Broadcast – Channel 4 (LL-PB)	233.46.176.11	55643		<i>Rerequest – Channel 4 (LL-PB)</i>	233.46.176.11	55743	69.10.248.211	Test Broadcast – Channel 4 (LL-PB)	233.46.176.59	55663	
	Broadcast – Channel 5 (PC-SP)	233.46.176.12	55644		<i>Rerequest – Channel 5 (PC-SP)</i>	233.46.176.12	55744	69.10.248.212	Test Broadcast – Channel 5 (PC-SP)	233.46.176.60	55664	
	Broadcast – Channel 6 (SQ-ZZ)	233.46.176.13	55645		<i>Rerequest – Channel 6 (SQ-ZZ)</i>	233.46.176.13	55745	69.10.248.213	Test Broadcast – Channel 6 (SQ-ZZ)	233.46.176.61	55665	
New York Metro Area "B" – *RP's 207.251.255.52	Broadcast – Channel 1 (A-CD)	233.46.176.24	55640	69.10.251.128/25	<i>Rerequest – Channel 1 (A-CD)</i>	233.46.176.24	55740	69.10.248.240	Data Center Redundancy not supported			
	Broadcast – Channel 2 (CE-FD)	233.46.176.25	55641		<i>Rerequest – Channel 2 (CE-FD)</i>	233.46.176.25	55741	69.10.248.241				
	Broadcast – Channel 3 (FE-LK)	233.46.176.26	55642		<i>Rerequest – Channel 3 (FE-LK)</i>	233.46.176.26	55742	69.10.248.242				
	Broadcast – Channel 4 (LL-PB)	233.46.176.27	55643		<i>Rerequest – Channel 4 (LL-PB)</i>	233.46.176.27	55743	69.10.248.243				
	Broadcast – Channel 5 (PC-SP)	233.46.176.28	55644		<i>Rerequest – Channel 5 (PC-SP)</i>	233.46.176.28	55744	69.10.248.244				
	Broadcast – Channel 6 (SQ-ZZ)	233.46.176.29	55645		<i>Rerequest – Channel 6 (SQ-ZZ)</i>	233.46.176.29	55745	69.10.248.245				
Chicago Metro Area "A" – U.S. *RP's 207.251.255.112	Broadcast – Channel 1 (A-CD)	233.46.176.72	55640	69.10.255.0/25	<i>Rerequest – Channel 1 (A-CD)</i>	233.46.176.72	55740	69.10.252.208	Data Center Redundancy not supported			
	Broadcast – Channel 2 (CE-FD)	233.46.176.73	55641		<i>Rerequest – Channel 2 (CE-FD)</i>	233.46.176.73	55741	69.10.252.209				
	Broadcast – Channel 3 (FE-LK)	233.46.176.74	55642		<i>Rerequest – Channel 3 (FE-LK)</i>	233.46.176.74	55742	69.10.252.210				
	Broadcast – Channel 4 (LL-PB)	233.46.176.75	55643		<i>Rerequest – Channel 4 (LL-PB)</i>	233.46.176.75	55743	69.10.252.211				
	Broadcast – Channel 5 (PC-SP)	233.46.176.76	55644		<i>Rerequest – Channel 5 (PC-SP)</i>	233.46.176.76	55744	69.10.252.212				
	Broadcast – Channel 6 (SQ-ZZ)	233.46.176.77	55645		<i>Rerequest – Channel 6 (SQ-ZZ)</i>	233.46.176.77	55745	69.10.252.213				
Chicago Metro Area "B" – U.S. *RP's 207.251.255.122	Broadcast – Channel 1 (A-CD)	233.46.176.88	55640	69.10.255.128/25	<i>Rerequest – Channel 1 (A-CD)</i>	233.46.176.88	55740	69.10.252.240	Data Center Redundancy not supported			
	Broadcast – Channel 2 (CE-FD)	233.46.176.89	55641		<i>Rerequest – Channel 2 (CE-FD)</i>	233.46.176.89	55741	69.10.252.241				
	Broadcast – Channel 3 (FE-LK)	233.46.176.90	55642		<i>Rerequest – Channel 3 (FE-LK)</i>	233.46.176.90	55742	69.10.252.242				
	Broadcast – Channel 4 (LL-PB)	233.46.176.91	55643		<i>Rerequest – Channel 4 (LL-PB)</i>	233.46.176.91	55743	69.10.252.243				
	Broadcast – Channel 5 (PC-SP)	233.46.176.92	55644		<i>Rerequest – Channel 5 (PC-SP)</i>	233.46.176.92	55744	69.10.252.244				
	Broadcast – Channel 6 (SQ-ZZ)	233.46.176.93	55645		<i>Rerequest – Channel 6 (SQ-ZZ)</i>	233.46.176.93	55745	69.10.252.245				

To minimize data loss, SIP provides primary and back-up groups for its data feed services (At two locations; New York Metro and Chicago Metro). The purpose of two host groups at these locations is to provide an extra layer of data redundancy within the extranet and end-user networks. By reading and utilizing both multicast groups into their production environment, IP multicast customers can help to protect themselves against network anomalies which could cause interruptions in data flow. To minimize data loss, UTP SIP strongly recommends that data feed customers process both the primary and back-up groups within their networks.

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NTF - UTP Quotation Services					NTF - UTP Trade Services				
Site	Channel	Group	Port	Source IP Address	Channel	Group	Port	Source IP	
New York Metro Area "A" – U.S.	Broadcast – Channel 1 (A-CD)	233.56.159.20	55630	206.200.20.0/23	Broadcast – Channel 1 (A-CD)	233.56.159.21	55640	206.200.20.0/23	
	<i>Rerequest – Channel 1</i>	55730	206.200.21.66		<i>Rerequest – Channel 1</i>	55740	206.200.21.86		
	Broadcast – Channel 2 (CE-FD)	233.56.159.20	55631	206.200.20.0/23	Broadcast – Channel 2 (CE-FD)	233.56.159.21	55641	206.200.20.0/23	
	<i>Rerequest – Channel 2</i>	55731	206.200.21.67		<i>Rerequest – Channel 2</i>	55741	206.200.21.87		
	Broadcast – Channel 3 (FE-LK)	233.56.159.20	55632	206.200.20.0/23	Broadcast – Channel 3 (FE-LK)	233.56.159.21	55642	206.200.20.0/23	
	<i>Rerequest – Channel 3</i>	55732	206.200.21.68		<i>Rerequest – Channel 3</i>	55742	206.200.21.88		
	Broadcast – Channel 4 (LL-PB)	233.56.159.20	55633	206.200.20.0/23	Broadcast – Channel 4 (LL-PB)	233.56.159.21	55643	206.200.20.0/23	
	<i>Rerequest – Channel 4</i>	55733	206.200.21.69		<i>Rerequest – Channel 4</i>	55743	206.200.21.89		
	Broadcast – Channel 5 (PC-SP)	233.56.159.20	55634	206.200.20.0/23	Broadcast – Channel 5 (PC-SP)	233.56.159.21	55644	206.200.20.0/23	
	<i>Rerequest – Channel 5</i>	55734	206.200.21.70		<i>Rerequest – Channel 5</i>	55744	206.200.21.90		
	Broadcast – Channel 6 (SQ-ZZ)	233.56.159.20	55635	206.200.20.0/23	Broadcast – Channel 6 (SQ-ZZ)	233.56.159.21	55645	206.200.20.0/23	
	<i>Rerequest – Channel 6</i>	55735	206.200.21.71		<i>Rerequest – Channel 6</i>	55745	206.200.21.91		