



# 7thSense Comms

## Ports: Delta, Juggler, Compere

User Guide



## Ports: Delta, Juggler, Compere : User Guide

### Trademark Information

The 7thsense logo, and various hardware and software product names are trademarks of 7thSense Design Ltd. Product or company names that may be mentioned in 7thSense publications are tradenames or trademarks of their respective owners, and such trademarks may also be registered in their respective countries. Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

### Copyright Information

All Rights Reserved. This document is copyrighted © by 7thSense Design Ltd and shall not be reproduced or copied without express written authorisation from 7thSense Design Ltd.

The information in this document is subject to change without notice. 7thSense Design Ltd assumes no responsibility for errors, and/or omissions contained in this information.

Printed: December 2023

This edition is for software version N/A  
Document ref.: M685-5

E: [info@7thsense.one](mailto:info@7thsense.one)  
W: 7thsense.one

7thSense Design Ltd  
2 The Courtyard, Shoreham Road  
Upper Beeding  
Steyping  
West Sussex  
BN44 3TN  
UK

T: +44 (0) 1903 812299

7thSense Design LLC  
4207 Vineland Rd  
Suite M1  
Orlando, FL 32811  
USA

T: +1 407 505 5200



Introduction	4
Network Ports Used by Delta Server	5
Ports Used by Juggler and Compere	8
Document Information	9
Index	10

## Introduction

---

Users of 7thSense systems – Delta Media Server, Delta software, Delta WebService, Stack web apps, Juggler and Compere – will need to pay some attention to any potential conflicts on communications ports. Some ports are user-configurable, others are not, so this summary guide, the contents of which are also contained in respective user guides, will help you avoid conflicts.

## Network Ports Used by Delta Server

The following is a list of network ports used by Delta Media Server and its supporting hardware and software.

Software/Hardware	Executables	Network Port(s)
DeltaServer	Deltaserver.exe	23 (TCP – Multi Telnet, default of 5 simultaneous connections) 24 (TCP – Telnet – deprecated in favour of Multi Telnet) 25 (TCP – Telnet – deprecated in favour of Multi Telnet) 26 (TCP – Telnet – deprecated in favour of Multi Telnet) 7001 (TCP – Command Port) 7002 (UDP – search port) 7003 (UDP – timing port) 7005 (UDP – transport server port) 7776 (UDP – Delta Multicast port) 7777 (UDP – Delta search) 7778 (UDP – Delta search response) 7780 (UDP – External Control Read port) 7781 (UDP – External Control Write port) 7878 (UDP or TCP – WebRTC preview video stream) 57120 (OSC, configurable, from Delta 2.8)
(group) Timing Controls Distribution (TCD) mode	Deltaserver.exe	TCP – A unique TCD Base Port (2000) + Group (34), would give 2034 UDP – TCDBasePort + Group + 1 (using the above example = 2035)
Web RTC Signalling Server	node.exe	7878
DeltaGUI	DeltaGUI.exe	7001 (TCP – command port) 7002 (UDP – search port) 7003 (UDP – timing port)
Stack web interface	node.exe (multiple instances) httpd.exe WebKit2WebProcess.exe	8000, 80, 8080
Stack 1.1	node.exe	8888 (Stack 1.1 discovery)
StackExpress	node.exe	3000 ()
StackSignage	node.exe	7654 (StackSignage Player) 8085 (StackSignage Media Sync) 8084 (StackSignage Snapshot) (Note all StackSignage ports are configurable)
7thClosedCaptionTrigger	7thclosedcaptiontrigger.exe	UDP – 7880 TCP – 1337

Software/Hardware	Executables	Network Port(s)
DeltaAudio	Deltaaudio.exe	Delta > DeltaAudio – 3476 DeltaAudio > Delta – 3477
DeltaMonitor	Deltamonitor.exe	7790
DeltaMonitor Backpack port	Deltamonitor.exe	9999
DeltaPreview	Deltapreview.exe	8484 (DeltaPreview from Delta 2.7)
DeltaShowControlInterface (with Advantech ADAM-6000 series)	DeltaShowControlInterface.exe	5168 (AdamPort)
7thUDP2TCP	7thUDP2TCP.exe	customizable
7thSenseBackPack	Backpack.exe	N/A
7thUDPAppLauncher	7thudpaplauncher.exe	configurable
7thSense DeltaLTC	DeltaLTC.exe	configurable
DeltaArt-Net	DeltaArtNet.exe	From Delta 2.6.73: 6454 (Output) 6455 (Input) Previous Delta versions, both on 6454
7thRS232Tx	7thRS232Tx.exe	configurable
7thProjectorCalibration	7thProjectorCalibration.exe	N/A
Soundman Server	soundman-server.exe	20000
Distributed File Manager (DFM)	DFM.exe	TCP – 23
RAID7th	Raid7th.exe	Delta > R7th – 3496 R7th > Delta – 3497
7thConnect	7thconnect.exe	Talks to Delta on TCP port 23
Dante Control & Monitoring		UDP – 8700, 8701, 8702, 8703, 8705, 8707, 8708, 8800
Delta Timecode Translator	DeltaTCT.exe	configurable
LTCReader	LTCReader.exe	20000
Dante Discovery	mDNSResponder.exe	The Dante Discovery service (the service that automatically discovers Dante devices on the network) requires that the 'Dante mDNSResponder' application is allowed access through the firewall (this is a per-application rule, rather than a per-port rule).
Dante Unicast Audio		UDP – 14336-14600
Dante Virtual Soundcard		UDP – 319, 320, 4321, 4440, 4444, 4455, 8001, 8002
Dante Controller Metering		UDP – 8751
Dante Controller	dantecontroller.exe	8751, and also relies on Dante Discovery and ConMon.

Software/Hardware	Executables	Network Port(s)
Scalable Camera Server	ScalableCameraServer.exe	–
Scalable Command Line Calibrator	CommandLineCalibrator.exe	–
Scalable Control Panel	ScalableControlPanel.exe	–
Scalable Display Client	DisplayClient.exe	–
UltraVNC	uvncviewer.exe uvncserver.exe	5900
Front Panel display (R-Series servers)		5000

## Ports Used by Juggler and Compere

Function	Configurable	Port
Compere UDP	Default, editable via comms.ini or in Preferences	9999
Compere TCP	Default, editable via comms.ini or in Preferences	5555 5553 (early versions of Compere)
Broadcast Logging UDP	Default, editable via comms.ini or in Preferences	5596
Watchdog control and comms	Fixed	5599
Juggler to Compere UDP hello packets	Fixed	9001
Juggler thumbnail data to Compere, UDP	Fixed	9009
Juggler 1 internal comms	Fixed	9012
Juggler 1 Console TCP	Fixed	9013
Juggler 2 TCP xml transmit	Fixed	9014
Juggler 2 TCP xml receive	Fixed	9015
Juggler to Compere TCP Console transmit	Fixed	9016
Compere to Juggler TCP Console receive	Fixed	9017
Multicast discovery UDP	Fixed	5353
External control comms, default UDP receive	Yes, in Preferences	8001
External control comms, default UDP transmit	Yes, in Preferences	8002
TCP (ASCII Ext Ctrl)	Yes, in Preferences	2300
External control adapter TCP	Yes, in Preferences	5584
Time Server	Default, editable in Preferences	18888
Front Panel touch display	Fixed	5000
Failover Heartbeat	Yes, in Preferences	5678
Project Group Data	Yes, in Preferences	5679

It is important to make sure the UDP and TCP ports match between all instance of Compere in a system that need to communicate with one another.



## Document Information

---

Date	Document edition	Software version	Revision Details	Author/Editor
September 2021	1	N/A	New release	Andie Davidson
February 2022	2	N/A	Revised Compere ports	Andie Davidson
December 2022	3	N/A	Revised Compere ports	Andie Davidson
March 2023	4	N/A	OSC added from Delta 2.8	Andie Davidson
December 2023	5	N/A	Additions and updates to Compere/Juggler	Andie Davidson

## A

avoiding port conflict 4

## C

Compere network ports (list) 8

## D

Delta network ports (list) 5

document information 9

## J

Juggler network ports (list) 8

E: [info@7thsense.one](mailto:info@7thsense.one)  
W: 7thsense.one

7thSense Design Ltd  
2 The Courtyard, Shoreham Road  
Upper Beeding  
Steyning  
West Sussex  
BN44 3TN  
UK

T: +44 (0) 1903 812299

7thSense LLC  
4207 Vineland Rd  
Suite M1  
Orlando, FL 32811  
USA

T: +1 407 505 5200

