



Network Connection Concession Certificate Saddleworth Moor Congestion issue

The following equipment (hereafter referred to as the "Equipment") has been reviewed by the Airwave Network Reference System for connection to the Airwave network.

	Manufacturer/Customer:	Versions:	Review Date:	Certificate Issue Date:
Supplier and Equipment Information	3TC Software The Coach House Desford Hall, Leicester Lane Desford, Leicestershire LE9 9JJ	Product / System Designation:- 3TC GD92 Gateway Release 19.3 Software Version: ModasGateway.exe 3.12.5.5 Firelink.exe 3.12.5.5 ModasProfessional.exe 3.12.5.4 MultiCadiService.exe 3.12.4.21 Certified and Tested with TETRA Terminal Version: Motorola MTM/P800 V5.9.1/ V5.13.1 and MODAS Firelink MDT Hardware Versions 1.0/2.0 Other Information/Approvals The system has been tested and approved using PID 237. The application has been authorised to use Packet Data Priority Level 0 (normal default).	01 Nov 2018	07 Nov 2018

The Equipment was reviewed for connection to the Airwave Network Reference System configured as follows:

Airwave Network Software version: -	D7.1.2, Centracom Q303
Airwave/Customer Test Specification Title and Issue: -	Airwave Data Application Conformance Test Specification V4

The concession review conducted on the Equipment suggests that it will not adversely impact the Airwave Network (as configured in accordance with the above specifications) when connected and used. The review was limited to Conformance tests in accordance with the latest applicable specification and hence no specific functionality or performance of the product was considered unless specified below or in the test results.

Key Observation/Comments:

1. The initial Conformance testing was conducted on 16/07/18 on version 19.2, and this concession replaces the original certificate, following changes to the software as summarised under item 3 below. The concession has been based on data contained in the following release note :- MODAS Software Release Note, Modas Release 19, Version 19.3 dated 17/10/2018
2. No further conformance testing has been carried out and this Concession Certificate has been issued purely on the assessment of the submitted documents and declaration by 3TC Software Ltd.
3. Key changes in the release:
 -) Logging performance improvements - logging to disk handled by secondary thread
 -) Traffic queuing performance Improvements when very large amounts of queued traffic due to bearer congestion
 -) Reduced bearer congestion based on discarding stale AVL traffic to reduce max level of queued traffic possible in incident relay situations
 -) Improved Gateway handling of pending traffic failure to a specific destination under highly busy/congested conditions.
 -) Optimisation of user interface processing to remove some significant overheads.

Disclaimer:

1. This conformance certificate does not indicate any security approval with respects to the operation of this hardware / software on the Airwave network.

It is the responsibility of the supplier and their customer (whether Airwave Solutions Ltd or 3rd party customer) to ensure the Airwave Accreditor's security requirements have been met before this hardware / software is deployed on the Airwave operational network. If this solution is deployed within the customer's security domain then the customers Accreditor / senior officer responsible for security must give their approval in line with the Airwave Service Code of Connection.

2. The issuing of this Connection Certificate is for information purposes only and Airwave makes no warranty representation (express or implied) or guarantee whatsoever as to the fitness for purpose of the Equipment or its ability to operate correctly when connected to the Airwave Network or any other network or equipment. Your use of the Equipment, connection of the Equipment to the Airwave Network and reliance on the contents of this Connection Certificate (for whatever purpose) is at your sole risk. To the fullest extent permitted by law, Airwave shall not be liable for any loss or damage (whether due to negligence or otherwise) arising in relation to the Equipment, its connection to the Airwave Network or any other network and/or your reliance on the content of this Connection Certificate.



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