

Brendan O'Brien

Dublin Region



4 municipal authorities

28% of population of Ireland

1.3 million in Greater Dublin Area

Economic driver

Knowledge hub

European and international gateway

The greater Dublin area is home to 40 per cent of the population, it is the engine of the economy with 53 per cent of GDP and it generates about 62 per cent of tax revenue

Transportation Issues

- Historic City Core
- Greater Dublin Area > 1.6 m
- Irelands Biggest Port 2km from Centre
- Public Transport = 53% mode share Car = 26 %
- Strict Car parking policy in City Centre
- Policy decision in 1994 to not allow increase in private cars entering City Centre --- Final DTI report.
 - Prioritise investment in sustainable modes :
 - Light Rail Tram system
 - Bus Connects Quality Bus Corridors project.
 - Metro Link

Regional transport strategy to 2035



TRAFFIC DEPARTMENT



Responsible for how people, vehicles and goods move around and within the city

The aim of the department is to ensure the safety of all mobility users within the city

Mitigate the impact of traffic on people's health and wellbeing and the environment Our responsibilities involve all aspects from major projects to Neighborhood

issues



Comhairle Cathrach Bhaile Átha Cliath Dublin City Council





Dublin City Council Road Authority and Traffic manager Responsible for multiple City services Elected Councillors .

National Transport Authority Public Transport regulator Funding agency for transport Projects Government body



Installation and expansion of SCATS





Control centre open since 1980 with a fixed time UTC system

SCATS adaptive control introduced in 1989



Comhairle Cathrach Bhaile Átha Cliath Dublin City Council

ITS – Traffic Control Room



103.2 Dubin City

Live Radio Traffic Updates















Intelligent Transportation Systems



Bhaile Átha Cliath

SCATS as the core of our ITS systems and Strategy







Network

Operations

Electrical

Civils



Coordination & Adaptation



Network

Operations

Electrical

Traffic Signal Management in Dublin City

•Sydney Coordinated Adaptive Traffic System (SCATS)

- •Adaptive urban traffic control system
- •Over 900 sites throughout Dublin
- •Sites throughout Dublin City, as well as Fingal, Dun-Laoghaire, and South Dublin
- •All sites on SCATS provide the opportunity for centralised bus priority, pedestrian and cycling priority as well as centralised fault reporting









SCATS in operation



Junction optimiser

Tactical control Variety of detection Loops Video Infra red Cyclist Detection Pedestrian detection Contact less buttons

Network

Communications by

Fibre, cable, fixed and Mobile comms Allows complete control on all aspects of operation All data and faults are instantly returned to SCATS for distribution

SCATS strategic layer

All junctions feed data into this layer All data is available to any other junction Each area can have different strategies Areas can run independently Access to different sets of signals can be controlled ITS API ITSLINK

SCATS provides junction optimisation and network linking

How does the SCATS adaptive traffic system work





CENTRAL MANAGER

- Manages the Regional Servers
- Configures the Regional Servers
- Issues instructions to Regions

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TRAFF

REGIONAL SERVERS

- Processes TRAFF data
- Applies SCATS algorithms
- Issues instructions to TRAFF
- Scale up to 64 Regions

TRAFF (Traffic Signal Controller)

- Processes the inputs
- Provides data to SCATS
- Makes decisions and controls signals
- Scale up to 250 sites per Region



(1) 405 - Harts Corner : Dublin (TCC) - NCITY

<u>C</u>onfigure Options Show Monitor Cameras CCTV 25 Subsystem Strategic Monitor Find 405 🖶 SCATS Move Smarter Alarms LC SC CF NCITY Subsystem 21 Degree of Saturation 75 Split Plan 1 Masterlink ₿ Subsystem Plan 1 Fixed Master Subsystem Cycle Generator 5 ₿ Link none Offset Plan 2 Offset 0, 0 B Link Plan 2 Active Link none SpeNCITY - Strategic Input Monitor NCITY - Subsystem Monitor × \times Data source Site XSF Subsystem: 21 No. of stored plans: 8 405 Phase B, Detectors 5-6 (SI 49) 405 Act Elapsed time 49 Critical site: Marriage counter: 0 Cycle limits: 40 to 80 Gap time 0 New time 40 0 А 5 6 Detector 0 Data Cycle-1 Cycle-2 Cycle-3 Cycle-4 Latest <B 0.0 0.0 New space time ISS prime phases 0 0 0 С New volume Subsystem Plan vote 0 D 47.1 44.0 Space time Active Subsystem Plan F1 F1 F1 F1 F1 0 1 5 Measured volume 0 2 6 Corrected volume Link plan vote 2 2 2 2 2 0 5 Reconstituted flow 2 Active link plan 2# 2# 2# 2# 2# 24 9 Initial DS % 24 Final DS % 9 0 Degree of saturation 78 59 97 81 86 54 7 0 Site DS (-1) Initial required CL (RL) 53 84 56 62 34 17 0 DS (-2) 0 А Attenuated RL 77 75 85 78 78 0 0.00 0.00 Calibration factor <B: Weighted RL 0 78 79 81 78 82 1674 1423 Maximum flow vph 0 Distributed RL 70 65 90 90 90 C 1.05 Occupancy (secs) 1.35 0 Effective minimum CL 50 50 50 50 50 D Auto Auto Type 4 Distributed effective min 50 50 50 50 50 1200 1731 Best flow today 0 1.07 Allowable CL increment -17 -17 -15 -13 -5 Occupancy 1.15 0 Proposed CL 84 84 84 84 84 Average daily flow 1382 4512 Nominal CL 90 90 90 1147 90 90 Total today 3400 Actual CL 90 90 90 90 90 \sim Close Marriage/Divorce Act DPTIM Intervention see notes ð MSS Masterlink

Region - NCITY - Version 6.9.4.16

User 0 - Level 0

 \times

Route Pre-emption - 2 loaded, 0 active



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6

8

10

- 12 -- 14

- 16

-18 --20

- 22 -- 24

- 26

-28 --30

- 32

2

6

- 8

17:12



SCALS Cornerstone







) oto oti o	n Time Co										Route
LUAS_I	Jelectio	in nine sec	luence									🗸 To BroomsBridge
Route	Seq	LUAS Site ID	MSS									✓ To St Stephens Green
To Brooms	Br 1	360	17- Prepare1							12:46:16		Select Time
idge			20 - Stop	12:00:	22	0 12:19:26	• 12	2:30:20	•	12:46:16		11:55:26 12:50-0
			21 - Clear	• 12:00:	30	12:19:40	• 12	2:30:30	•	12:46:30		11.55.50 12.50.0
			22-Prepare1	12:00:	48	12:19:56	• 1	2:30:44	•	12:46:52		G-D
			23- Prepare2	• 12:0	1:18	0 12:22:16	•	12:31:12	12:47:20			MSS
	3	352	17-Prepare1	• 12	:02:20	12:22:48	٠	12:31:42	12:48:22	•		10
			20 - Stop		0 12:05:08	0 12:24	:10	12:32:50	12:49:	20 😐		12
			21 - Clear		12:05:52	• 12:24	:26	12:33:00	12:49:	42 🔍		13
	4	328	17-Prepare1	•	12:04:44	• 12:23:3	8	12:31:52	12:48:32	••		14
			19 - Demand		12:05:52	0 12:24	:26	• 12:33:00	12:49:	42 😐		17-Prepare1
			20 - Stop	• 1	0 12:06:16	0 12:24	:48					18 - Prepare2
			21 - Clear		12:06:20	• 12:24	:58	• 12:33:24				19 - Demand
	5	226	17-Prepare1		12:05:52	• 12:24	:26	12:33:00	12:49:	42 🔍		20 - Stop
			19 - Demand		12:06:16	0 12:24	:48					21 - Clear
			20 - Stop		0 12:06:44	0 12:	25:18	0 12:33:44				22-Prepare1
			21 - Clear		12:07:00	• 12:	25:36	• 12:34:10				23- Prepare2
	8	196	17-Prepare1		12:07:48	• 1:	2:26:24	12:34:46				24 Demand
			19 - Demand		0 12:08:06	• 1:	2:26:46	• 12:35:2	26			25 Stop
			20 - Stop		0 12:08:22	•	•		2:38:02			26 Clear
			21 - Clear		12:09:08		• 1	2:30:32 • 1	2:38:38			27
	9	197	17-Prepare1		12:07:48	• 1:	2:26:24	12:34:46				28
			19 - Demand		12:09:08	•			2:38:02			29
			20 - Stop		0 12:09:12		• 1	2:30:38 • 1	2:38:40			30
			21 - Clear		• 12:09:18		● 12:30:44 ● 1			2:38:48		
	10	198	17- Prepare1		12:08:06	• 1:	2:26:46	• 12:35:2	26			
			19 - Demand		12:09:08		• 1	2:30:32	2:38:38			
			20 - Stop		0 12:09:26		• 13	2:30:56	12:39:00			
			21 - Clear		12:09:42			12-31-12	12:39:14			
	14	201	17-Prepare1		0 12:12:1	2	-	12:32:58	12:41:05			
			18 - Prepare2		0 12.12.1	2		12:32:58	12:41:06			
			19 - Demand		9 12-13	2-18		0 12:33:18	12:41:22			
			20 - Stop		0 12:13	2.48		- 12.00.20	0 12:41:54			
			21 - Clear		0 12:13	2:48			0 12:41:54			
			22-Prepare1		12	14:10		0 12:34:06	12.42.2	4	~	
	15	202	17-Prenare1		■ 12-11	2-40		■ 12:33:30	■ 12·/11·/R			
				12:02	12:12	12:22	12	:32	12:42	12:52	2	
						Time						
						inne						

Route

12:50:00









LUAS Route / LUAS Site Seq / LUAS Site ID / ShortName





Just to note the detection data shows only e4 trams this morning between 8 am to 9 am.







350 cameras for Traffic management and incident management

ITS Systems – FMS Asset Management



			Accest & Foult Ma	nagamant C	watam				
Asset No	b. 2200	Туре	TSS (DCC - City)	✓ Status	Installed 🗸	Parent Asset No.			
🛷 Tracking o	details		Asset Location details		🜐 Custom Fields			Show on	
Manufacturer	Atc	L	ocation ID Signals_196	•	Name 🕇	Value		мар	
Model	TC424-90	G	GIS N 53.3468673 E	-6.2607669	Alu Poles (2m)	0	-	Asset History	
Serial No.	atc-1509-3637	L	.ocation O'Connell Bridge @ A	ston Quay	Alu Poles (4m)	0	E	Print	
External Ref.		F	Road		Alu Poles (7m)	1		Preview	
Condition	<blank></blank>	- C	Direction		Alu Poles (HA)	0		Delete	
🐧 Asset Life	time dates		Alustar (Pedest 15						
Installat	ion date				Alustar (Traffic)	17			
Manufactur	ed date		Purchase	0 €	AT PBU			New Asset	
Commiss	ion date		Warranty	0 €	Audio				
Warranty exp	piry date		Installation	0 €	Bi Pin	0			
Last inspecti	ion date 27/10/2017		Installation Contract		Comms Details	IP 10.40.37.90	T	Go Back	
Dispo	sal date	JANG W	a la) R	Remove		Apply	
Description Child Assets Work H Date v Entered By 31/7/2018, 00:48:56 System Audit Trail Child Assets Work H Entered By Child Assets Control of the pole. I remade off the 20									
31/7/2018, 00:	:47:54 System	CAO							
30/7/2018, 23	:58:58 System				AL AND A				
30/7/2018, 23:	:58:06 System	1			/// For http	onsite			
30/7/2018, 23:	:22:36 james.reilly	6							
30/7/2018, 23	:13:51 System	-							
30/7/2018, 23	:11:05 System				IS I	egion, Classification	: Pending		

15

N11

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~13

ITS Systems – Application Support FMS

***			Asset & Fault Ma	anagement System			ि	
Dublin City Council				Hello Maggie ODonnell for DCC ITS Hom	e Logout Change Password Help	ssets F	aults Reports	
Faults Equipment	Pending Faults							
 Equipment Type 	TSS (DCC - City), TSS	(DLR - Regio	onal)		New Fault	View From:	Go	
Control Room	Equipment	State	Location	Fault Type	Description	Ack'd By	Raised Time ↓	
Dialogue Display Signs	I Signals_162	Raised	Mobhi Rd @ Griffith Av	SCATS communications stopped	1		28/02/2017 14:17 🔺	
Fibre Cable	Signals_761	Cleared	Blackhall St Bridge @ Ellis Quay (Joyce Bridge N	Controller watchdog alarm			28/02/2017 14:01	
Fibre Joints	Signals_761	Cleared	Blackhall St Bridge @ Ellis Quay (Joyce Bridge N	Lamps blacked out	'SCATS communications stopped' fault also raise		28/02/2017 14:01	
Fibre ODF	Signals_6066	Raised	Leopardstown Rd/Brewery Rd/Burton Hall Rd	Faulty detector 17			28/02/2017 14:00	
Fibre Transmission	Signals_6066	Cleared	Leopardstown Rd/Brewery Rd/Burton Hall Rd	Faulty detector 21			28/02/2017 14:00	
FMS System Illuminated Bollards	Signals_120	Raised	Mount St Bridge @ Warrington PI			28/02/2017 13:00		
Other Termination Points	Signals_6066	Cleared	Leopardstown Rd/Brewery Rd/Burton Hall Rd	Faulty detector 16			28/02/2017 13:00	
PGMS Signs	Signals_6067	Cleared	Ballyogan Road @ Glencairn Cresent	Faulty detector 7			28/02/2017 13:00	
 PGMS System RTPI Signs Cork 	Signals_640	Cleared	Collins Ave @ DCU	Faulty push button 2			28/02/2017 13:00	
RTPI Signs Cork	Signals_629	Raised	Crumlin Rd @ Rafters Rd	Faulty detector 2			28/02/2017 12:00	
RTPI Signs Dublin Airport	Signals_465	Cleared	Merrion Sq @ Mount St Upr	Faulty detector 7			28/02/2017 12:00	
RTPI Signs Galway	Signals_6064	Cleared	Pottery Rd @ Amgen	Faulty detector 11			28/02/2017 12:00	
RTPI Signs Kildare RTPI Signs Limoriak	 I Signals_259 	Cleared	Harolds Cross Rd @ Park View Av	No carrier from controller	'SCATS communications stopped' fault also raise		28/02/2017 11:16	
✓ Fault Class	Signals_416	Cleared	Gardiner PI @ Temple St	Head fault general	Report of optics hanging.	darran.b	28/02/2017 11:03	
Class 1 (0)	Signals_229	Cleared	Westmoreland St @ College St	Faulty detector 10			28/02/2017 11:00	
Class 2 (44)	Signals_229	Cleared	Westmoreland St @ College St	Faulty detector 11	Associated faults: 6098553 (Type: Detector Faults),		28/02/2017 11:00	
Class 3 (56)	Signals_72	Cleared	Fairview @ Fairview Strand (Edges Corner)	Faulty push button 2			28/02/2017 11:00	
Coop Fault (87)	Signals_72	Cleared	Fairview @ Fairview Strand (Edges Corner)	Faulty push button 3	Associated faults: 6098551 (Type: Push Button F		28/02/2017 11:00	
E 10.1	Signals_44	Cleared	Constitution Hill @ Western Way	Faulty detector 4			28/02/2017 11:00	
Fault State	Signals_765	Cleared	Mount St @ Love Lane	SCATS communications stopped			28/02/2017 10:20	
Raised	Signals_6085	Ack'd	Drummartin Link@Kilmacud Road Upper(T557)	Inspection Request	Attend site in the PM peek and observe the opera	darran.b	28/02/2017 10:07	
Acknowledged	Signals_692	Cleared	Kylemore Rd @ Landon Rd	SCATS communications stopped			28/02/2017 10:03	
Attended	Signals_629	Cleared	Crumlin Rd @ Rafters Rd	Faulty detector 2			28/02/2017 10:00	
Fixed and Cleared Request Transfer	Signals_528	Cleared	Finglas Rd @ Tolka Valley Rd	Faulty detector 8			28/02/2017 10:00	
Transferred	Signals_416	Cleared	Gardiner PI @ Temple St	Faulty lamp			28/02/2017 09:51	
Request On-Hold	Signals_6172	Cleared	Deansgrange Rd@Stradbrook Rd(T119)	No carrier from controller		darran.b	28/02/2017 09:09	
On-Hold Cancelled	Signals_765	Cleared	Mount St @ Love Lane	SCATS communications stopped	'No carrier from controller' fault also raised on this		28/02/2017 09:09 🗸	
	Show Map New Ma	р			Current Fa	ult Count: 191	< Prev. Next >	



Centralised bus Priority – How does it work.



DPTIM

Inputs:

- SIRI data feed for 20 second bus position data 1000 buses
- Bus route Network Data
- Scats network
- Unscheduled stops report
- Tram Data
- Fuses bus and traffic data
- Virtualised loops = no additional roadside infrastructure
- Map-based user interface
- Drawing interface to map-out virtual loops, configured for route patterns and threshold values.
- Data Base for all bus data

- <u>Outputs</u>
- Connects to SCATS via ITS Port when thresholds are met.
- Priority requested in real time
 - Single junction
 - Entire routes



Good Data--- Useful Information



Good Information not just Data

- Bus provides perfect data
- Bus Route / Journey Patterns
 - Where its going
 - Its complete route
- Identify Pinch-Points
 - Time of day
 - Multiple causes
- Data Warehouse



Bus priority system - Coverage in Dublin



Dashboards

•Can be used to display many different datasets...

- ➤Congestion and stoppages
- Stop-to-stop journey time
- ➢Bus stop impact score
- ≻Stop/trip percentage
- •Very useful for visually presenting data
- •Useful for comparison analysis
 - Before/after bus priority measure were introduced
 - Different times of day





Informed decision making

Analysis Reports County Counci Month Timeband Rank Stop Name Stop No. Stops Trips Percentag Average SA rage Dimpact etOfDalas 3885 2338 -395 31738 238 24953 Fingal Co.Co. May'18 07:00-10:00 1 Swords Road Radisson Hotel (-) 693 654 713 106 26 Fingal Co.Co. May'18 07:00-10:00 2 Snugborough Road Garnish Square (+) 284 29 122 Fingal Co.Co. May'18 07:00-10:00 1814 233 415 94 269 3 Blanchardstown Ramor Park (+) 21976 Fingal Co.Co. May'18 07:00-10:00 4 Charlestown Rd Charlestown S.C. (+ 7132 355 708 61 85 21790 Fingal Co.Co. May'18 07:00-10:00 5 Snugborough Road Waterville Row (-) 1816 169 672 -362 20784 123 ×** Fingal Co.Co. May'18 07:00-10:00 6 Dublin Rd Swords N1 Business Pk (+) 3675 251 517 119 17835 **Dublin City Council** Fingal Co.Co. May'18 07:00-10:00 7 Main Street Swords Fingal County Council (-) 3689 317 769 -73 17423 Journey Time Comparison 01/08/2017 - 31/08/2017 After: 01/08/2018 - 31/08/2018 Time: 07:00 Fingal Co.Co. May'18 07:00-10:00 Fingal Co.Co. May'18 07:00-10:00 8 Navan Road Morgan's Place (-) 9 St. Margaret's Road Charlestown Centre (-) 16214 1845 269 1368 6348 260 577 45 -100 15947 61 Fingal Co.Co. May'18 07:00-10:00 10 Warrenstown Warrenstown Way (-) 4994 182 314 87 -293 15853 Ston 4900: Auburn Ave Fingal Co.Co. May'18 07:00-10:00 11 Navan Road Blanchardstown Centre (+) 1545 142 143 188 Befor Fingal Co.Co. May'18 07:00-10:00 348 12 Warrenstown Warrenstown Green (+) 4999 Fingal Co.Co. May'18 07:00-10:00 13 Blackcourt Rd Blanchardstown Rd (-) 1833 130 351 794 109 -96 65 14202 Fingal Co.Co. May'18 07:00-10:00 14 Huntstown Way Ashfield Park (+) 1866 252 32 56 14073 -114 48 Fingal Co.Co. May'18 07:00-10:00 15 Shelerin Road Ongar Road (-) 1898 200 694 13932 29 967 13679 Fingal Co.Co. May'18 07:00-10:00 265 16 Swords Road Turnapin Lane (+) 1636 27 52 Fingal Co.Co. May'18 07:00-10:00 17 Harristown Bus Garage (+) 324 216 751 57 722 12270 Fingal Co.Co. May'18 07:00-10:00 18 Blanchardstown Blanchardstown Town Centre (4747 220 1395 55 369 12036 16 Fingal Co.Co. May'18 07:00-10:00 19 Ballymun Road Silloge Golf Club (-) 327 212 506 42 56 -527 11819 744 Fingal Co.Co. May'18 07:00-10:00 20 Swords Road ALSAA Sports Club (+) 1630 219 53 290 11584 29 Fingal Co.Co. May'18 07:00-10:00 21 Diswellstown Rd Femleigh Close (+) 129 174 84 227 10787 4895 Fingal Co.Co. May'18 07:00-10:00 22 Navan Road River Road (-) 7389 170 558 30 61 -423 10307 Fingal Co.Co. May'18 07:00-10:00 23 Shelerin Road Lohunda Road (+) 1899 127 332 38 80 36 10168 Fingal Co.Co. May'18 07:00-10:00 24 IKEA St. Margaret's Rd (+) 7149 114 10116 592 19 89 57 100 179 Fingal Co.Co. May'18 07:00-10:00 25 Old Navan Rd Castleknock Road (+) 1842 179 365 10115 07.00 - 08.00 Review **Priority** *** **Dublin Public Transport Interface Module** المنائله مل (1) 4014 - N3, Auburn Road : Dublin (FCC) - DCC1 Find Monitor Subsystem Strategic Monitor Aubern N3 Fingal Co.Co.: Cameras 71 and 156 4814 👻 Alams SC IH SI NF DCC1 Subsystem 2 SCATS 6 (Degree of Saturation 81 Split Plan 6 Subsystem Plan 6 Ducle Ger Married + Offset Plan 4 Offset 0.0 D Link Plan 4 🚯 Link 30, 35 A 4013 Active Link 30 A 4013 Cycle Plan r Special Facilities Z3.6 Cycle Length 87 Required Cycle Length 87 B __ MKP*C@12 Active Offset 0 D Site Fallback 0 DPTIM intervention, see notes Using ATC Serial server 151.177.220.226 for Scats comms GK 25/04/18 MSS Master Isolated Region - DCC1 - Version 6.9.3.21 User 0 - Level 0 04/10/2018 12:51:13

Result example 1 AM Virtual Detector

- •Bus has to makes a right turn and was experiencing delays
- •Applies plan 15 to B phase at SCATS site 32
- •Scheduler set to from 0700-1000
- •39% reduction in journey time between 0800-0900



Dublin City Council

Journey Time Comparison Report



Activity Number:	210007				
Function Type:	Action L	ist	•		
√lin Time:	20	seconds			
vlax Time:	120	seconds			
Recheck Interval:	10	seconds			
Description:	Applies p	lan 15 at Int 32 for 2 n	nins		
TCS	SCATS sta	rt action num	SCATS	end action nu	m
32	4180		4181		

	Befo	re	Afte	Comparison	
Time Interval	Total No of Buses	Avg Journey Time	Total No of Buses	Avg Journey Time	% Difference
07:00 - 08:00	158	113	172	112	-0.88
08:00 - 09:00	180	232	180	141	-39.22
09:00 - 10:00	140	130	143	117	-10



Summary

The Effect of Bus Priority

- Increased level of service of public transport
- •Encourage modal shift from private car
- •Environmental sustainability

Advantages of centralised bus priority

- •Virtual detectors reduce the need for often expensive on-street measures
- •Fast to install
- •System can be used to maintain bus priority throughout the whole city
- Interventions can easily be tweaked
- •Scheduler means priority can be given at specific times of the day



Comhairle Cathrach Bhaile Átha Cliath Dublin City Council

ITS Systems – SCATS Infrastructure Support

EU The Directive on security of network and information systems (NIS Directive)

Ireland The companies and utilities that have been officially designated as Operators of Essential Services are now subject to a set of security requirements as set out in Regulation 17 of SI No. 360 of 2018.

The DCC SCATS Installation is officially designated under this legislation

👰 🚱 🚡 💭 New connection - 🚇 Incoming requ	Certral Manager (1) 322 - Kylemore Rd, Bluebi Show Configure Options Serial to Ethernet Co Serial to Ethernet Co Litvity Iog	-CMS	User 0 - Level 0	28/02/2017 14:44:4	4101 IF 5104 IF 6240 W 4122 IF - X Ny @ Help -	162 STVE 163 ST 701TY1 FL 162 ST	28/02/2017 14:43:24 28/02/2017 14:34:44 28/02/2017 14:40:14 28/02/2017 14:40:14 28/02/2017 14:42:04	Stopped communications Stopped communications Fallback Stopped communications		Region Connections Post Version Flags ▲ C171 151.172.20.201 0001 58.21.9 ■ DOC1 151.172.20.203 0001 58.21.9 ■ IRE 156.1762.20.204 0001 58.21.9 ■ IRE 156.1762.004 0001 58.21.9 ■ IRE2 106.1066 2001 58.21.9 ■ IRE2 106.1066 0001 58.21.9 ■ IRE2 106.1172.20.208 2000 6.9.21.9 ■
🖳 TCS5106	Information about T	CS6059 conne	ection D	Delete Mirror Edi	t					SUTY 151.177.220.200 2001 6.9.2.19 WCITY1 151.177.220.203 2001 6.9.2.19 New Rename Edt Delete
© TC 56059 ♥	<u> </u>	- 🎝		<u> </u>						Work station name Traffic Graphics Re updates
C 56096	Client Here you can see the summar about COM port used in this co	COM93 [Virtual y about the connection innection and Network] you created. Whether it is a cli info. You can also analyze the	Remote se ient, server or UDP connection, i connection statistics.	nformation					C Automatic To realizes C At start up C Scheduled: 0 Hour 0 Minute Gateway.
☐ TCS6209 ○ ☐ TSC5001 ○	Connection summary									Utter fems Use: Fhase Fort size: Fort size
🖳 TSC5002 🕞	Port name: Port status:	COM93 Opened	Port type: Current settings:	Virtual 300-O-8-1		unt 7	Clear	Details Betresh	Close	Close
☐ TSC5003	Bytes sent: Stricted baudrate:	80.26 MB no	Bytes received:	212.63 MB						
US TSC5005	Opened by: Network infromation	C:IProgram File:	S (X86)(SCATS)Region(SCA	IS.exe ed: 1/1						
🖳 TSC5006 💿	Proxy: Use encryption:	no no	Proxy authorization: Use authorization:	no						
TSC6110	Remote host 192.168.230.203:4000	St: co	atus Sent Recei innected 2.16 MB 5.74 M	ived Active MB 12:21:41						
U TCS 755 O										
🖳 TCS 878 🕑 🗸										



Thank You

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