

EION BYTES

A large banking firm in the Middle East, using EION Technology, expands its fast and robust wireless network across the whole country

A Large Banking firm in the middle east selected EION's latest PTP and PTMP Radio system to continue expanding its fast and robust wireless network across the country. This customer used EION's previous generations of the PTP & PTMP radios. With the long-time success and stability in their infrastructure, they decided to continue expanding their coverage using EION's new generation of radios to deploy more links in more cities. The bank branches are around 200 branches distributed across 20 cities.

The biggest challenge that EION radio solved for this customer was working in a severe interference environment. From the built-in Spectrum Analyzer to the real-time link monitor to the Trust-Link preparatory feature and the large spectrum available on the radio. All these features helped the customer deploy its wireless in the very congested 5 GHz band.

The second challenge that EION radio succeeded in was the high temperature of this country in the summer, and being a well-weatherproof radio, it was able to keep its stability across the harsh weather for at least four years now since the first phases of deployment back to 2018.

Additionally, EION radios achieved long-range links with firm stable performance over very sensitive banking applications. The longest link in this network is 49 km with 25 Mbps capacity.

New Link 1.66 Km



StarPlus 5300-58-24i PtP
RSSI (VH): -99/-64
Noise: -95

Link Monitoring [Noise: -95 dBm] [Ch.BW: 5MHz]

Peer Name	V RSSI/SNR (dBm/dB)	H RSSI/SNR (dBm/dB)	Tx Modulation	Rx Modulation	Tx Quality	Tx. Speed (Kbps)	Rx. Speed (Kbps)
target_1	-59/+36	-55/+40	2x64QAM-5/6	2x64QAM-5/6	Good	3	20
target_1	-59/+36	-55/+40	2x64QAM-5/6	2x64QAM-5/6	Good	3	13
target_1	-59/+36	-55/+40	2x64QAM-5/6	2x64QAM-5/6	Good	3	13
target_1	-59/+36	-55/+40	2x64QAM-5/6	2x64QAM-5/6	Good	3	13
target_1	-59/+36	-54/+41	2x64QAM-5/6	BPSK-1/2	Good	5	23
target_1	-59/+36	-55/+40	2x64QAM-5/6	2x64QAM-5/6	Good	5	23
target_1	-61/+34	-57/+38	2x64QAM-5/6	2x64QAM-5/6	Good	3	34
target_1	-59/+36	-54/+41	2x64QAM-5/6	2x64QAM-5/6	Good	3	34
target_1	-59/+36	-54/+41	2x64QAM-5/6	2x64QAM-5/6	Good	3	21
target_1	-59/+36	-54/+41	2x64QAM-5/6	2x64QAM-5/6	Good	3	21
target_1	-59/+36	-55/+40	2x64QAM-5/6	2x64QAM-5/6	Good	5	16
target_1	-59/+36	-54/+41	2x64QAM-5/6	2x64QAM-5/6	Good	5	16
target_1	-59/+36	-54/+41	2x64QAM-5/6	2x64QAM-5/6	Good	2	11
target_1	-59/+36	-54/+41	2x64QAM-5/6	2x64QAM-5/6	Good	2	11
target_1	-59/+36	-55/+40	2x64QAM-5/6	2x64QAM-5/6	Good	2	22
target_1	-59/+36	-54/+41	2x64QAM-5/6	2x64QAM-5/6	Good	2	22
target_1	-59/+36	-55/+40	2x64QAM-5/6	2x64QAM-5/6	Good	5	37
target_1	-59/+36	-55/+40	2x64QAM-5/6	2x64QAM-5/6	Good	3	22
target_1	-59/+36	-54/+41	2x64QAM-5/6	2x64QAM-5/6	Good	3	22
target_1	-59/+36	-55/+40	2x64QAM-5/6	2x64QAM-5/6	Good	3	13
target_1	-59/+36	-54/+41	2x64QAM-5/6	2x64QAM-5/6	Good	3	13
target_1	-59/+36	-54/+41	2x64QAM-5/6	2x64QAM-5/6	Good	5	18

Server address: 172.18.105.185 Port: 5,001 [5]

Bandwidth graph showing Kbps over Time (seconds).

Application layer options:
 Enable Compatibility Mode
 Transmit: Bytes Seconds
 Output Format: Kbits seconds
 Report Interval: 1 [5] seconds
 Testing Mode: Dual Trade
 Representative File: test part [5,001] [5]
 Print MSS

Transport layer options:
 Choose the protocol to use:
 TCP
 Buffer Length: 2 [2] Bytes
 TCP Window Size: 56 [2] Bytes
 Max Segment Size: 1 [2] Bytes
 TCP No Delay
 UDP
 UDP bandwidth: 1 [2] Mbit/second
 UDP Buffer Size: 41 [2] Bytes
 UDP Packet Size: 1,500 [2] Bytes

IP layer options:
 TTL: 1 [2]
 Type of Service: None [2]
 IPv6

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[3241] 20.0-29.0 sec 2294 Kbytes 10492 Kbits/sec
[3242] 29.0-40.0 sec 2132 Kbytes 17420 Kbits/sec
[3243] 0.0-40.1 sec 73698 Kbytes 13031 Kbits/sec
Date:
  
```



New Link 2.81 Km



The screenshot shows the 'Link Monitoring' interface for a StarPlus 5300-58-24i PtP device. The interface includes a sidebar with navigation options like 'Home', 'QuickStart', 'Wireless', 'Network Interfaces', 'Network Services', 'System', 'Status', 'Maintenance', 'Diagnostics', and 'Support'. The main area displays a table of link monitoring data.

Peer Name	V (dBm/40)	H (dBm/40)	RSSI/SNR (dBm/40)	RSSI/SNR (dBm/40)	Tx Modulation	Rx Modulation	Tx Quality (Kbps)	Rx Speed (Kbps)
target_1	-54/+41	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-49/+46	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-55/+40	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-49/+46	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-55/+40	-49/+46	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-49/+46	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-53/+42	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-53/+42	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	
target_1	-54/+41	-48/+47	2x64QAM-5/6	2x16QAM-3/4	Good	5	0	



New Link 11.5 Km



StarPlus 5300-58 PtP
RSSI (V/M): -56/-66
Noise: -95

Link Monitoring [Noise: -95 dBm] [Ch.BW: 5MHz]

Peer Name	V RSSI/SNR (dBm/dB)	H RSSI/SNR (dBm/dB)	Tx Modulation	Rx Modulation	Tx Quality	Tx. Speed (Kbps)	Rx. Speed (Kbps)
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	11	14
target_1	-57/+38	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	11	14
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	15	7
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	15	7
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	14	11
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	8	14
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	8	14
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	6	11
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	6	11
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	7	11
target_1	-57/+38	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	7	11
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	8	14
target_1	-57/+38	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	8	14
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	7	11
target_1	-57/+38	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	7	11
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	5	7
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	5	7
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	10	14
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	23	17
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	23	17
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	20	9
target_1	-58/+37	-56/+39	2x64QAM-5/6	2x64QAM-5/6	Good	20	9

iperf command: iperf -s -i 172.18.105.185 -P 1 -t 1 -q 5001 -k 140

Server address: 172.18.105.185 Port: 5001

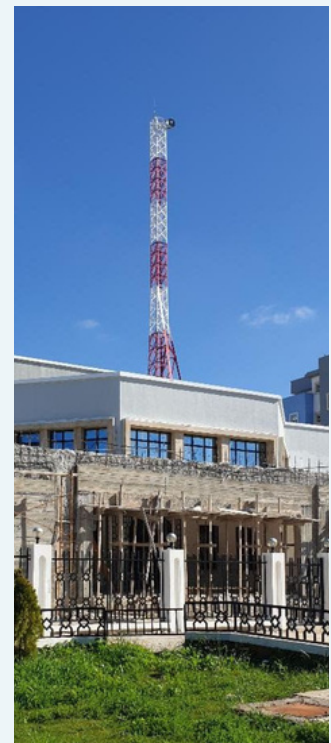
Application layer options:
 Enable Compatibility Mode
 Transport: 40
 Output Format: Kbits
 Report Interval: 1 seconds
 Testing Mode: Dual Trade
 Representative File:
 Print MSS

Transport layer options:
 Choose the protocol to use: TCP
 Buffer Length: 2.0 Mbytes
 TCP Window Size: 50.0 Kbytes
 Max Segment Size: 1.0 Mbytes
 TCP No Delay
 UDP
 UDP Bandwidth: 1 Mbytes/sec
 UDP Buffer Size: 41.0 Kbytes
 UDP Packet Size: 1,500 Bytes

ip layer options:
 TTL: 1
 Type of Service: None
 Bind to Host: IPv6

Bandwidth
 Graph showing bandwidth (Kbps) over time (sec). The y-axis ranges from 0 to 23,000 Kbps. The x-axis ranges from 0 to 40 seconds. The data points fluctuate between approximately 17,000 and 22,000 Kbps.

Output:
 [324] 20.0-20.0 sec 2094 Kbytes 20943 Kbits/sec
 [324] 30.0-30.0 sec 2106 Kbytes 21064 Kbits/sec
 [] 0 Successful Transfer Bandwidth
 [324] 0.0-40.1 sec 104024 Kbytes 21146 Kbits/sec Done.



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