

MAX-860 Report

PASS

Report Header: Equicom Méréstechnikai Kft.
Report Title:
Report Date: 2018.04.20. 13:54:06
Type: EtherSAM (Y.1564)

Job Information

Job ID: US16-150_teszt
Circuit ID: 1-2
Contractor Name:
Customer Name:
Operator Name: Ákos
Comment:

Table of contents

SUMMARY 1
TEST RESULTS 5
TEST SETUP 11
FUNCTIONS 17
SYSTEM INFORMATION 18
LOGGER 18

SUMMARY

Results Summary

Test Status	
Service Configuration Test Status	Completed, Pass
Service Performance Test Status	Completed, Pass
Pass/Fail Verdict	PASS
Start Time	2018.04.20. 11:25:52
Duration	00d:00:12:23
Test Recovery	0

EtherSAM

Services Summary			
	Service Name	Service Configuration Test	Service Performance Test
1	Adat	PASS	PASS
2	Kamerák	PASS	PASS
3	Telefonok	PASS	PASS

Service Configuration Summary							
	Service Name	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Max Throughput (Mbit/s)	Service Verdict
1	Adat	L->R	0,0E-00	< 0,015	0,031	500,006	PASS
		R->L	0,0E-00	< 0,015		500,004	PASS
2	Kamerák	L->R	0,0E-00	< 0,015	0,028	201,263	PASS
		R->L	0,0E-00	< 0,015		201,263	PASS
3	Telefonok	L->R	0,0E-00	< 0,015	< 0,015	5,056	PASS
		R->L	0,0E-00	< 0,015		5,056	PASS

Service Performance Summary							
	Service Name	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Avg Throughput (Mbit/s)	Service Verdict
1	Adat	L->R	0,0E-00	< 0,015	0,031	500,005	PASS
		R->L	0,0E-00	< 0,015		500,005	PASS
2	Kamerák	L->R	0,0E-00	< 0,015	0,031	201,263	PASS
		R->L	0,0E-00	< 0,015		201,263	PASS
3	Telefonok	L->R	0,0E-00	< 0,015	0,031	5,056	PASS
		R->L	0,0E-00	< 0,015		5,056	PASS

VLAN Preservation	No Mismatch Detected
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RX Frequency		
	Max Negative Offset	Max Positive Offset
Frequency Offset (ppm)	0,0	11,0

Alarms/Errors

Alarms/Errors List

Active/Historical Alarms/Errors

None

Interface

Alarms	Seconds
Frequency	0

Ethernet

Alarms	Seconds
Link Down	0

Errors	Seconds	Count	Rate
Symbol	0	0	0,00E00
False Carrier	0	0	0,00E00
Idle	0	0	0,00E00
FCS	0	0	0,00E00
Jabber	0	0	0,00E00
Oversize	Disabled		
Runt	0	0	0,00E00
Undersize	0	0	0,00E00
Total		0	

Clock Sync

Alarm	Seconds
LOC	0

IP/UDP/TCP

Errors	Seconds	Count	Rate
IP Checksum	0	0	0,00E00
UDP Checksum	0	0	0,00E00
TCP Checksum	0	0	0,00E00
Total		0	

Setup Summary

Application Type	EtherSAM (Y.1564)
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Interface	Port 1
Interface/Rate	10/100/1000M Electrical
Connector	RJ45

Auto-Negotiation	Enabled
Speed	1000 Mbit/s
Duplex	Full
Flow Control	None
Local Clock	Slave

EtherSAM

DTS Enabled	
Remote ID	MAX-860F2
Nat Router Detection	No NAT
Local WAN IP	N/A
Pass/Fail Verdict	Enabled

Sub-Tests			
Service Configuration Test		Service Performance Test	
Ramp Test	Enabled	Status	Enabled
Burst selection	Enabled	Duration	00d:00:10:00
Duration (s)	25		

Ramp	
Step Time (s)	5
Step Values	
1	50 %
2	75 %
3	90 %
4	100 %

Burst	
Number of Burst Sequence	2
Refill Delay Ratio (%)	50
Burst/IR Frame Ratio (%)	90

Services

Total Committed TX Rate (Mbit/s)	L->R	706,317
	R->L	706,317

Services Summary									
	Service Name	Profile	Frame Size (Bytes)	Direction	CIR (Mbit/s)	Max Jitter (ms)	Max Latency (ms)	Frame Loss Rate	CBS (Bytes)
1	Adat	Data	Random	L->R	500,000	2,0		1,0E-03	12144
				R->L	500,000	2,0	15,0	1,0E-03	12144
2	Kamerák	Video	1374	L->R	201,261	2,0		1,0E-03	12144
				R->L	201,261	2,0	15,0	1,0E-03	12144
3	Telefonok	Voice	138	L->R	5,056	2,0		1,0E-03	12144
				R->L	5,056	2,0	15,0	1,0E-03	12144

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	395
Broadcast	9	369
Unicast	60514882	60520844
Non-Unicast	9	764
Total	60514891	60521608

Frame Size (Bytes)	RX Count	%
< 64	0	0
64	1780	0
65 - 127	1498894	2
128 - 255	6645723	10
256 - 511	8361563	13
512 - 1023	16731164	27
1024 - 1518	27282484	45
> 1518	0	0
Total	60521608	

Detailed EtherSAM Results

[Service Configuration Test](#)

Service 1 : Adat

Committed Steps						
Committed Step	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Verdict	Avg Throughput (Mbit/s)
1-50%CIR	L->R	0,0E-00	< 0,015	0,03	PASS	250,002
	R->L	0,0E-00	< 0,015		PASS	250,002
2-75%CIR	L->R	0,0E-00	< 0,015	0,031	PASS	375,004
	R->L	0,0E-00	< 0,015		PASS	375,003
3-90%CIR	L->R	0,0E-00	< 0,015	0,031	PASS	450,005
	R->L	0,0E-00	< 0,015		PASS	450,004
CIR	L->R	0,0E-00	< 0,015	0,03	PASS	500,006
	R->L	0,0E-00	< 0,015		PASS	500,004
CBS	L->R	0,0E-00	< 0,015	0,03	PASS	492,953
	R->L	0,0E-00	< 0,015		PASS	493,638

Service 2 : Kamerák

Committed Steps						
Committed Step	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Verdict	Avg Throughput (Mbit/s)
1-50%CIR	L->R	0,0E-00	< 0,015	0,028	PASS	100,631
	R->L	0,0E-00	< 0,015		PASS	100,631
2-75%CIR	L->R	0,0E-00	< 0,015	0,028	PASS	150,947
	R->L	0,0E-00	< 0,015		PASS	150,947
3-90%CIR	L->R	0,0E-00	< 0,015	0,028	PASS	181,137
	R->L	0,0E-00	< 0,015		PASS	181,137
CIR	L->R	0,0E-00	< 0,015	0,028	PASS	201,263
	R->L	0,0E-00	< 0,015		PASS	201,263
CBS	L->R	0,0E-00	< 0,015	0,028	PASS	196,471
	R->L	0,0E-00	< 0,015		PASS	196,472

Service 3 : Telefonok

Committed Steps						
Committed Step	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Verdict	Avg Throughput (Mbit/s)
1-50%CIR	L->R	0,0E-00	< 0,015		PASS	2,528
	R->L	0,0E-00	< 0,015	< 0,015	PASS	2,528
2-75%CIR	L->R	0,0E-00	< 0,015		PASS	3,792
	R->L	0,0E-00	< 0,015	< 0,015	PASS	3,792
3-90%CIR	L->R	0,0E-00	< 0,015		PASS	4,550
	R->L	0,0E-00	< 0,015	< 0,015	PASS	4,550
CIR	L->R	0,0E-00	< 0,015		PASS	5,056
	R->L	0,0E-00	< 0,015	< 0,015	PASS	5,056
CBS	L->R	0,0E-00	< 0,015		PASS	4,789
	R->L	0,0E-00	< 0,015	< 0,015	PASS	4,789

Service Performance Test

Service 1 : Adat

	Direction	Average	Minimum	Maximum	Estimate
Throughput (Mbit/s)	L->R	500,005	499,992	500,019	N/A
	R->L	500,005	499,993	500,018	N/A
Jitter (ms)	L->R	< 0,015	< 0,015	< 0,015	< 0,015
	R->L	< 0,015	< 0,015	< 0,015	< 0,015
Latency (ms)	Round-trip	0,023	< 0,015	0,031	N/A
		Seconds	Count	Rate	
Frame Loss	L->R	0	0	0,0E00	
	R->L	0	0	0,0E00	
Out-of-Sequence	L->R	0	0	0,0E00	
	R->L	0	0	0,0E00	

Service 2 : Kamerák

	Direction	Average	Minimum	Maximum	Estimate
Throughput (Mbit/s)	L->R	201,263	201,260	201,271	N/A
	R->L	201,263	201,260	201,271	N/A
Jitter (ms)	L->R	< 0,015	< 0,015	< 0,015	< 0,015
	R->L	< 0,015	< 0,015	< 0,015	< 0,015
Latency (ms)	Round-trip	0,028	0,028	0,031	N/A
		Seconds	Count	Rate	
Frame Loss	L->R	0	0	0,0E00	
	R->L	0	0	0,0E00	
Out-of-Sequence	L->R	0	0	0,0E00	
	R->L	0	0	0,0E00	

Service 3 : Telefonok

	Direction	Average	Minimum	Maximum	Estimate
Throughput (Mbit/s)	L->R	5,056	5,054	5,057	N/A
	R->L	5,056	5,056	5,057	N/A
Jitter (ms)	L->R	< 0,015	< 0,015	< 0,015	< 0,015
	R->L	< 0,015	< 0,015	< 0,015	< 0,015
Latency (ms)	Round-trip	0,024	< 0,015	0,031	N/A
		Seconds	Count	Rate	
Frame Loss	L->R	0	0	0,0E00	
	R->L	0	0	0,0E00	
Out-of-Sequence	L->R	0	0	0,0E00	
	R->L	0	0	0,0E00	

TEST SETUP

Clock Synchronization

Clock Mode	Recovered
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Detailed Services Configuration

IP Version	IPv4	
Global Pass/Fail Verdict	Enabled	
	L->R	R->L
Total Committed TX Rate (Mbit/s)	706,317	706,317

Service 1

Service Profile

Service Name	Adat
Profile	Data
Frame Size Type	Random

SLA Parameters

	L->R	R->L
Information Rate		
CIR (Mbit/s)	500,000	500,000
Burst Size		
CBS (Bytes)	12144	12144
Performance Criteria		
Max Jitter (ms)	2,0	2,0
Max Latency (ms)	15,0	15,0
Frame Loss Rate	1,0E-03	

Test Parameters

	L->R	R->L
Burst Max Rate (Mbit/s)	1000,000	1000,000

Framing		
Frame Format	Ethernet II	
Network Layer	IPv4	
Transport Layer	TCP	
	L->R	R->L
VLAN	None	None

Addressing

		MAC	IP Address	TCP Port
L->R	Source	00:03:01:11:85:01	10.10.133.1 / 255.255.0.0	49184
	Destination	00:03:01:11:84:F2	10.10.133.2	7
R->L	Source	00:03:01:11:84:F2	10.10.133.2 / 255.255.0.0	7
	Destination	00:03:01:11:85:01	10.10.133.1	49184

	L->R	R->L
EtherType	0x0800	0x0800
Automatic IP (DHCP)	Disabled	No
TTL	128	128
TOS	0x00	0
Default Gateway	Disabled	Disabled

Service 2

Service Profile	
Service Name	Kamerák
Profile	Video
Codec	HDTV (MPEG-4)
Number Of Channels	19
Frame Size Type	Fixed
Frame Size (Bytes)	1374

SLA Parameters		
	L->R	R->L
Information Rate		
CIR (Mbit/s)	201,261	201,261
Burst Size		
CBS (Bytes)	12144	12144
Performance Criteria		
Max Jitter (ms)	2,0	2,0
Max Latency (ms)	15,0	15,0
Frame Loss Rate	1,0E-03	

Test Parameters		
	L->R	R->L
Burst Max Rate (Mbit/s)	1000,000	1000,000

Framing		
Frame Format	Ethernet II	
Network Layer	IPv4	
Transport Layer	UDP	
	L->R	R->L
VLAN	None	None

Addressing

		MAC	IP Address	UDP Port
L->R	Source	00:03:01:11:85:01	10.10.133.1 / 255.255.0.0	49184
	Destination	00:03:01:11:84:F2	10.10.133.2	7
R->L	Source	00:03:01:11:84:F2	10.10.133.2 / 255.255.0.0	7
	Destination	00:03:01:11:85:01	10.10.133.1	49184

	L->R	R->L
EtherType	0x0800	0x0800
Automatic IP (DHCP)	Disabled	No
TTL	128	128
TOS	0x00	0
Default Gateway	Disabled	Disabled

Service 3

Service Profile	
Service Name	Telefonok
Profile	Voice
Codec	VoIP G.711
Number Of Calls	40
Frame Size Type	Fixed
Frame Size (Bytes)	138

SLA Parameters		
	L->R	R->L
Information Rate		
CIR (Mbit/s)	5,056	5,056
Burst Size		
CBS (Bytes)	12144	12144
Performance Criteria		
Max Jitter (ms)	2,0	2,0
Max Latency (ms)	15,0	15,0
Frame Loss Rate	1,0E-03	

Test Parameters		
	L->R	R->L
Burst Max Rate (Mbit/s)	1000,000	1000,000

Framing		
Frame Format	Ethernet II	
Network Layer	IPv4	
Transport Layer	UDP	
	L->R	R->L
VLAN	None	None

Addressing

		MAC	IP Address	UDP Port
L->R	Source	00:03:01:11:85:01	10.10.133.1 / 255.255.0.0	49184
	Destination	00:03:01:11:84:F2	10.10.133.2	7
R->L	Source	00:03:01:11:84:F2	10.10.133.2 / 255.255.0.0	7
	Destination	00:03:01:11:85:01	10.10.133.1	49184

	L->R	R->L
EtherType	0x0800	0x0800
Automatic IP (DHCP)	Disabled	No
TTL	128	128
TOS	0x00	0
Default Gateway	Disabled	Disabled

FUNCTIONS

Ping & Trace Route

Network	
Source MAC Address	00:03:01:11:85:01
Source IP Address	10.10.133.1 (Stream 1)
Destination IP Address	0.0.0.0

Ping	
Timeout (ms)	4000
Delay (ms)	1000
Data Size (Bytes)	32
TTL	128
Type Of Service (TOS)	0x00

Ping Statistics	
Packets Transmitted	--
Packets Received	--
Percentage Lost (%)	--
Minimum Round Trip Time (ms)	--
Maximum Round Trip Time (ms)	--
Average Round Trip Time (ms)	--

Trace Route	
Timeout (ms)	4000
Max Hop Count	128


SYSTEM INFORMATION

Product Name	MaxTester Series
Version	MaxTester Series 1.6
Module ID	MAX-860
Slot ID	1
Software Product Version	1.6.0.104
	MaxTester Series 1.6
Assembly Hardware Revision	B
Serial Number	1072210
Calibration Date	2017.11.15. 1:48:00

Software Options

100optical	Ethernet 100Base-FX (Optical) Interface	Disabled
GigE_Optical	Ethernet 1000Base-X (Optical) Interface	Enabled
GigE_Electrical	Ethernet 1000Base-T (Electrical) Interface	Enabled
TCP-THPUT	Tcp Throughput Test Application	Disabled
ADV-FILTERS	Advanced Filtering	Disabled
MPLS	MPLS Encapsulation (10GE and less)	Disabled
IPV6	Internet Protocol Version 6 (IPv6) (10GE and less)	Disabled
ETH-THRU	Through Mode Test Application	Disabled
Cable_Test	Cable Test	Disabled
ETH-CAPTURE	Ethernet Frame Capture for Advanced Troubleshooting	Disabled
ETH-OAM	Carrier Ethernet OAM Test Application	Disabled
DUAL-PORT	Dual Port Test	Disabled
RFC6349	RFC 6349 Test Application (10GE and less)	Disabled
LINK-OAM	Link OAM	Disabled
RFC6349-EXFOWorx	Enables EXFO Worx Interop Operation Mode	Disabled

LOGGER

ID	Time	Event	Duration	Details
1	04.20 11:25:52	Test Started		2018-04-20
2	04.20 11:25:57	Service Configuration test		2018-04-20
3	04.20 11:28:04	Service Performance test		2018-04-20
4	04.20 11:38:15	Test Stopped		 PASS

EtherSAM_(Y.1564)_2018.04.20_13.54.02

