



Istituto Comprensivo Statale di Bagnatica (BG)

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Agli Atti
Al Sito Web
All'Albo

Prot. N. 10032 del 27/10/2022

VERBALE DI COLLAUDO

OGGETTO: Verbale di collaudo relativo all'Avviso pubblico prot. n. AOODGEFID/20480 del 20/07/2021 per la realizzazione di reti locali, cablate e wireless, nelle scuole. Fondi Strutturali Europei – Programma Operativo Nazionale “Per la scuola, competenze e ambienti per l'apprendimento” 2014-2020 - Fondo europeo di sviluppo regionale (FESR) – REACT EU.

Titolo del progetto: Cablaggio strutturato e sicuro all'interno degli edifici scolastici;

Codice Progetto: 13.1.1A-FESRPON-LO-2022-89;

CUP: C49J21044500006;

Oggi, 27/10/2022 alle ore 14:30,

- Vista la Richiesta di offerta del 04/05/2022 per la realizzazione/rifacimento della rete locale, cablata e wireless dell'istituto relativa al progetto con cod. naz. 13.1.1A-FESRPON-LO-2022-89;
- Visto la stipula prot. N. 4207 del 09/05/2022 per la realizzazione/rifacimento della rete locale, cablata e wireless dell'istituto effettuata con l'Operatore Economico aggiudicatario e cioè GAMMA TECHNOLOGY SRL;
- Vista la nomina dell'Ing. Riva Stefano come Collaudatore del progetto;

si è proceduto alla seduta di collaudo.

Sono presenti:

- Il Dirigente Scolastico Prof. Paolo Mario Merlini;
- La Sig.ra Fortunato Maria Teresa , DSGA di questa istituzione scolastica;
- Il Ing. Riva Stefano, collaudatore;
- Il Sig. Pasquale Paolo, rappresentante legale della Ditta GAMMA TECHNOLOGY SRL;

Si è proceduto alla verifica e al collaudo delle seguenti attrezzature e dei beni acquistati e degli impianti di rete realizzati in base al progetto specifico redatto dal progettista (eseguito a regola d'arte):

Per l'elenco delle consistenze e delle relative prove funzionali si allega la relazione del collaudatore che è parte integrante del presente verbale.

Si è proceduto con questa sequenza:

1. Verifica della piena rispondenza tra le attrezzature fornite, gli impianti realizzati e quelli indicati nell'offerta prescelta con quelli richiesti nel piano degli acquisti, nel capitolato tecnico e nel progetto redatti dal progettista;
2. Verifica degli apparati attivi (anche a campione) e il funzionamento degli stessi;
3. Verifica della funzionalità dell'infrastruttura di rete realizzata;
4. Verifica che l'impianto di rete realizzato rispetti le vigenti norme di sicurezza;

Si conferma la piena efficienza dell'impianto di rete realizzato e del materiale fornito risultato qualitativamente rispondente allo scopo a cui deve essere adibito ed esente da difetti, menomazioni o vizi che ne possano pregiudicare l'impiego.

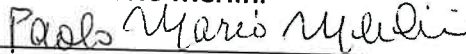
Il materiale fornito corrisponde quantitativamente al contenuto trascritto nella fattura pro-forma.

Il collaudo termina alle ore 17:45 del giorno 27/10/2022

Bagnatica, 27/10/2022

Il Dirigente Scolastico

Paolo Mario Merlini



Il DGSA

Fortunato Maria Teresa



Il Rappresentante della Ditta

Paolo Pasquale



Il Collaudatore

Riva Stefano



Bagnatica, 27/10/2022

OGGETTO: Report di collaudo impianto di trasmissione dati presso Istituto Comprensivo di Bagnatica Bergamo.

In data odierna, presso l'Istituto Comprensivo di Bagnatica (Bergamo) presso i seguenti plessi:

- Primaria Bagnatica;
- Secondaria di Bagnatica;
- Primaria Brusaporto;
- Secondaria Brusaporto;
- Primaria Costa di Mezzate;
- Secondaria Costa di Mezzate.

Si sono svolte le seguenti verifiche:

- Controllo delle consistenze in offerta e effettivamente installate;
- Test della connettività cablata:
 - Verifiche Y.1564.
- Test della copertura Wireless;

Documentazione:

- Sono state consegnate al DSGA:
 - Copia delle credenziali di gestione del sistema;
 - Mappatura posizione degli access point per ogni sede.
- La ditta ha provveduto a consegnare report di certificazione delle tratte in rame realizzate.

Verifica delle consistenze (sulla base della documentazione di progetto):

Sede Primaria di Brusaporto:

ID	DESCRIZIONE	Q.TA'	VERIFICA	NOTE
1	Realizzazione punto rete singolo CAT 6UTP – CAVO 6 UTP	11	OK	
2	FIREWALL XG 106	1	OK	
3	ACCESS POINT Zyxel NWA110AX (o similar. Gestione in cloud senza costi aggiuntivi (alimentatore incluso)	11	OK	
4	Transceiver SFP	2	OK	
5	Switch Zyxel GS1920-48HP v2 (o similare) web managed 44 Porte Gigabit PoE + 4 dual gigabit + 2 porte SFP Gigabit. Gestione in cloud senza aggiunta di costi	1	OK	
6	Switch Zyxel GS1920-48 V2 (o similare) Web managed 44 porte Gigabit + 4 Porte Dual Gigabit + 2 Porte SFP Gigabit 1	1	OK	Modificato modello come da comunicazione progettista. Rif. Protocollo 10034 ricevuta il 26/10/2022

Sede Secondaria di Brusaporto:

ID	DESCRIZIONE	Q.TA'	VERIFICA	NOTE
1	Realizzazione punto rete singolo CAT 6UTP – CAVO 6 UTP	7	OK	
2	FIREWALL XG 115	1	OK	
3	ACCESS POINT Zyxel NWA110AX (o similar. Gestione in cloud senza costi aggiuntivi (alimentatore incluso)	7	OK	
4	Switch Zyxel GS1920-48HP v2 (o similare) web managed 44 Porte Gigabit PoE + 4 dual gigabit + 2 porte SFP Gigabit. Gestione in cloud senza aggiunta di costi	1	OK	
5	Switch Zyxel GS1920-48 V2 (o similare) Web managed 44 porte Gigabit + 4 Porte Dual Gigabit + 2 Porte SFP Gigabit 1	1	OK	Modificato modello come da comunicazione progettista. Rif. Protocollo 10034 ricevuta il 26/10/2022



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Sede Primaria di Costa di Mezzate:

ID	DESCRIZIONE	Q.TA'	VERIFICA	NOTE
1	Realizzazione punto rete singolo CAT 6UTP – CAVO 6 UTP	9	OK	
2	FIREWALL XG 125	1	OK	
3	Servizi apparati attivi Central Sophos o similare	1	OK	
4	ACCESS POINT Zyxel NWA110AX (o similar. Gestione in cloud senza costi aggiuntivi (alimentatore incluso)	9	OK	
5	Switch Zyxel GS1920-48HP v2 (o similare) web managed 44 Porte Gigabit PoE + 4 dual gigabit + 2 porte SFP Gigabit. Gestione in cloud senza aggiunta di costi	1	OK	
6	Switch Zyxel GS1920-24HP V2 (o similare) Web managed 44 porte Gigabit + 4 Porte Dual Gigabit + 2 Porte SFP Gigabit 1	1	OK	

Sede Secondaria di Costa di Mezzate:

ID	DESCRIZIONE	Q.TA'	VERIFICA	NOTE
1	Realizzazione punto rete singolo CAT 6UTP – CAVO 6 UTP	10	OK	
2	ACCESS POINT Zyxel NWA110AX (o similar. Gestione in cloud senza costi aggiuntivi (alimentatore incluso)	10	OK	
3	Switch Zyxel GS1920-48HP v2 (o similare) web managed 44 Porte Gigabit PoE + 4 dual gigabit + 2 porte SFP Gigabit. Gestione in cloud senza aggiunta di costi	1	OK	
4	Switch Zyxel GS1920-24HP V2 (o similare) Web managed 44 porte Gigabit + 4 Porte Dual Gigabit + 2 Porte SFP Gigabit 1	1	OK	



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Sede Primaria di Bagnatica:

ID	DESCRIZIONE	Q.TA'	VERIFICA	NOTE
1	Realizzazione punto rete singolo CAT 6UTP – CAVO 6 UTP	12	OK	
2	FIREWALL XGS 126	1	OK	
3	Servizi apparati attivi Central Sophos o similare	1	OK	
4	ACCESS POINT Zyxel NWA110AX (o similar. Gestione in cloud senza costi aggiuntivi (alimentatore incluso)	12	OK	
5	Switch Zyxel GS1920-48HP v2 (o similare) web managed 44 Porte Gigabit PoE + 4 dual gigabit + 2 porte SFP Gigabit. Gestione in cloud senza aggiunta di costi	1	OK	
6	Switch Zyxel GS1920-24HP V2 (o similare) Web managed 44 porte Gigabit + 4 Porte Dual Gigabit + 2 Porte SFP Gigabit 1	2	OK	Modificato modello come da comunicazione progettista. Rif. Protocollo 10034 ricevuta il 26/10/2022

Sede Secondaria di Bagnatica:

ID	DESCRIZIONE	Q.TA'	VERIFICA	NOTE
1	Realizzazione punto rete singolo CAT 6UTP – CAVO 6 UTP	11	OK	
2	FIREWALL XG 106	1	OK	
3	ACCESS POINT Zyxel NWA110AX (o similar. Gestione in cloud senza costi aggiuntivi (alimentatore incluso)	11	OK	
4	Switch Zyxel GS1920-48HP v2 (o similare) web managed 44 Porte Gigabit PoE + 4 dual gigabit + 2 porte SFP Gigabit. Gestione in cloud senza aggiunta di costi	1	OK	



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SERVER:

ID	DESCRIZIONE	Q.TA'	VERIFICA	NOTE
1	Server HPE ProLiant DL360 Gen10 (o similare) Intel Xeon-S 4208 8-Core (2.10GHz 11MB) 16GB (1 x 16GB) PC4-2933Y-R DDR4 RDIMM 8 x Hot Plug 2.5in Small Form Factor Smart Carrier Smart Array P408i-a 500W 3yr Next Business Day Warranty + OPT HPE 865408-B21 ALIMENTATORE 500W FLEX SLOT PLATINUM HOT PLUG LOW HALOGEN POWER SUPPLY KIT + 3 HARD DISK 1.2TB SAS 10K SFF (2.5IN) SMART CARRIER HOT PLUG + RAM 16GB (1X16GB) DUAL RANK X4 DDR4-2933 CAS-21-21-21 REGISTERED MEMORY KIT + USB IT KEYBOARD/MOUSE KIT + Windows Server 2022 Standard - CSP Perpetual + 15 Microsoft Windows ServerCAL 2022 Academic OLP 1License NoLevel UsrCAL + 3 F-Secure PSB, Partner Managed Server Protection Premium License for 1 year Educational (1-24) SERVER + ACADEMIC VMWARE VSPHERE 7 ESSENTIALS KIT FOR 3 VMs (MAX 2 PROCESSORS PER HOST) + ACADEMIC SUBSCRIPTION ONLY FOR VMWARE VSPHERE 7 ESSENTIALS KIT + VEEAM BACKUP ESSENTIALS STANDARD 2 SOCKET BUNDLE VMWARE EDUCATIONAL SECTOR	1	OK	Al momento presenti due VM Attive.
2	NAS QNAP TS-431K X (o similare) 4HD 3,5"/2,5"SATA6>NO HD< 2P GIGABIT-3P USB3.0-1GB,QUAD CORE AL-214 1.7GHZ + 3 HD 3TB Interno 3,5" iP 256MB WD Red NAS	1	OK	
3	GRUPPO DI CONTINUITA' APC Smart-UPS SMT1500IC (o similare) - UPS - 220/230/240 V c.a. V - 1000 Watt - 1500 VA - RS-232, USB - connettori i di uscita 8 - nero - con APC SmartConnect + SCHEDA RETE APC NETWORKING MANAGEMENT CARD	1	OK	

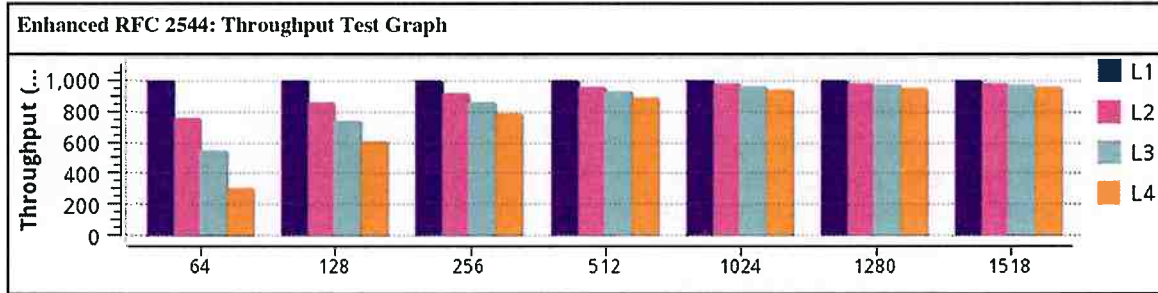


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Verifica delle Prestazioni per la tipologia di switch installato:

Per lo switch tipo Zyxel installato è stata fatta una verifica sulle prestazioni dell'apparato, verificando i seguenti parametri:

Throughput:

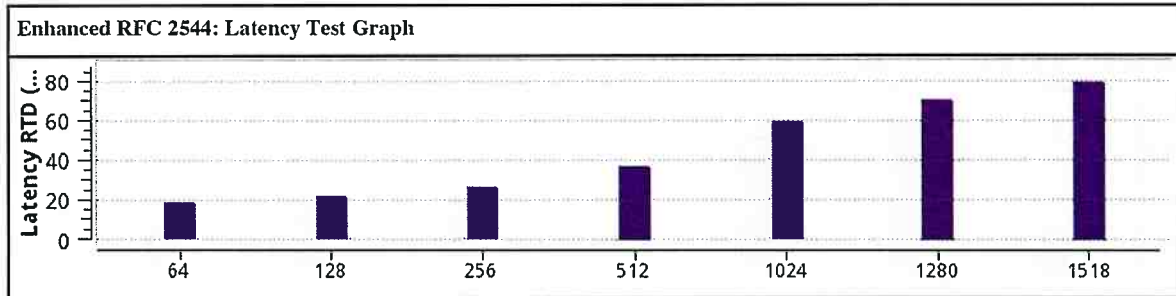


Enhanced RFC 2544: Throughput Test Results

Frame Length (Bytes)	Measured L1 Rate (Mbps)	Measured L2 Rate (Mbps)	Measured L3 Rate (Mbps)	Measured L4 Rate (Mbps)	Measured Rate (frms/sec)	Pause Detect	Cfg Rate (L1 Mbps)
64	999.93	761.85	547.58	309.50	1,487,986	No	1000.00
128	999.93	864.80	743.19	608.07	844,534	No	1000.00
256	999.93	927.47	862.26	789.80	452,866	No	1000.00
512	999.93	962.34	928.51	890.92	234,945	No	1000.00
1024	999.93	980.77	963.53	944.38	119,723	No	1000.00
1280	999.93	984.55	970.70	955.32	96,147	No	1000.00
1518	999.93	986.93	975.22	962.22	81,269	No	1000.00

I dati rilevati risultano conformi a quanto atteso.

Latency:



Enhanced RFC 2544: Latency Test Results

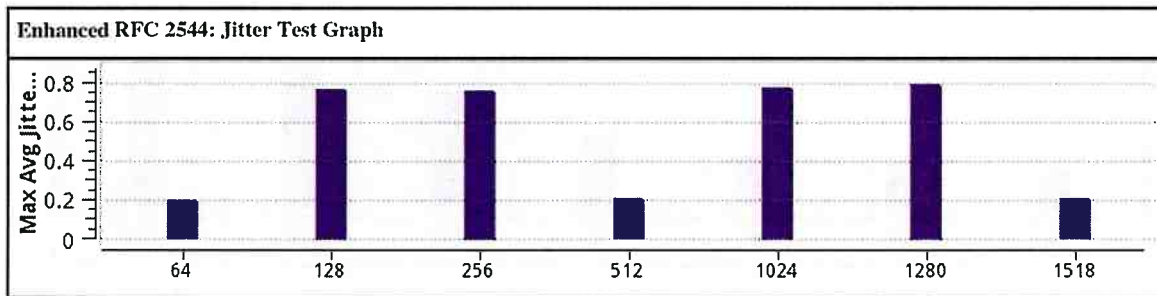
Frame Length (Bytes)	Latency RTD (us)	Measured LI Rate (Mbps)	Measured LI (% Line Rate)	Measured Rate (frms/sec)	Pause Detect
64	18.74	999.93	99.993	1,487,986	No
128	22.23	999.93	99.993	844,534	No
256	26.86	999.93	99.993	452,866	No
512	37.40	999.93	99.993	234,945	No
1024	59.34	999.93	99.993	119,723	No
1280	70.59	999.93	99.993	96,147	No
1518	79.21	999.93	99.993	81,269	No

I dati rilevati risultano conformi a quanto atteso.



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Jitter:



Enhanced RFC 2544: Jitter Test Results








Frame Length (Bytes)	Max Avg Jitter (us)	Measured LI Rate (Mbps)	Measured LI (% Line Rate)	Measured Rate (frms/sec)	Pause Detect
64	0.20	999.93	99.993	1,487,986	No
128	0.77	999.93	99.993	844,534	No
256	0.76	999.93	99.993	452,866	No
512	0.21	999.93	99.993	234,945	No
1024	0.78	999.93	99.993	119,723	No
1280	0.79	999.93	99.993	96,147	No
1518	0.21	999.93	99.993	81,269	No








I dati rilevati risultano conformi a quanto atteso.

Verifica Copertura Wireless:

In funzione del numero di access point e della loro ubicazione si è verificato che:

- Le SSID attive fossero correttamente visibili;
- I valori nelle aree di interesse (Aule / Laboratori):
 - Signal;
 - Noise;
 - Airtime;
 - Estimate Throughput.
- Si riporta un estratto dei valori misurati (con strumento VIAVI NSC-200 S/N RRYF0012520942)

TEST COMPLETED		
	Profile: DE_LAB Date: Oct 27, 2022, 4:18:06 PM Network: Docenti DA:63:E5:A0:43:65 5 GHz ax 2x2 80 MHz Ch. 40	
	Estimated WiFi Throughput ⓘ 300 Mbps WiFi 6	
Airtime ⌵ ⌶		
 9.7 % Total Channel	 7.1 % WiFi	 2.6 % Noise Airtime
Coverage ⌵ ⌶		
 -49 dBm Signal Strength	 -101 dBm Channel Noise	
SNR	52 dB	
Signal Strength Threshold	-54 dBm	
Noise Threshold	-72 dBm	

TEST COMPLETED		
	Profile: DE_LAB Date: Oct 27, 2022, 3:48:25 PM Network: Elezioni DA:5F:E5:A0:41:54 5 GHz ax 2x2 80 MHz Ch. 40	
	Estimated WiFi Throughput ⓘ 700 Mbps WiFi 6	
Airtime ⌵ ⌶		
 2.8 % Total Channel	 2.7 % WiFi	 0.1 % Noise Airtime
Coverage ⌵ ⌶		
 -37 dBm Signal Strength	 -101 dBm Channel Noise	
SNR	64 dB	
Signal Strength Threshold	-54 dBm	
Noise Threshold	-72 dBm	

La misurazione è stata fatta verificando in vari punti dell'Istituto, in funzione della posizione del numero di access point installati.

Verifica Ethernet Service Activation Test Report:

Per ogni plesso è stato effettuato il test Y.1564 sugli apparati di nuova fornitura, di seguito i risultati ottenuti:

PLESSO	Risultato Service Configuration	Risultato Service Performance
Primaria Bagnatica	Passato	Passato
Secondaria Bagnatica	Passato	Passato
Primaria Costa di Mezzate	Passato	Passato
Secondaria Costa di Mezzate	Passato	Passato
Primaria Brusaporto	Passato	Passato
Secondaria Costa di Mezzate	Passato	Passato

Di seguito i report dello strumento per ogni singola prova.




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Generated by Viavi 4800


Customer Name	Primaria Bagnatica
Technician ID	SR
Test Location	CED PT
Work Order	--
Comments/Notes	--
Instrument	SC4800
Serial Number	WMNE0051320025
SW Version	30.1.0




SAMComplete Overall Test Result: Pass

Start Date	10/27/2022
End Date	10/27/2022
Start Time	3:30:57 PM CEST
End Time	3:35:40 PM CEST

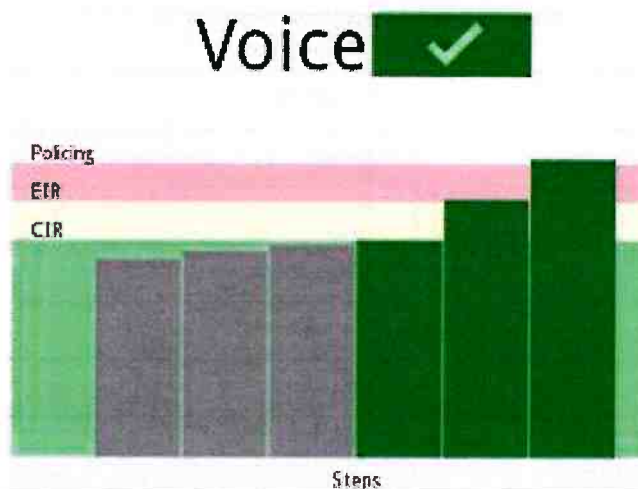
 **Service Configuration**

1	Voice	<input checked="" type="checkbox"/>	
2	Dati	<input checked="" type="checkbox"/>	
3	HDTV	<input checked="" type="checkbox"/>	


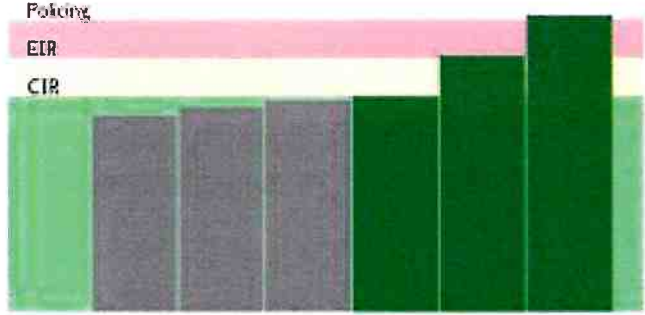
 **Service Performance**


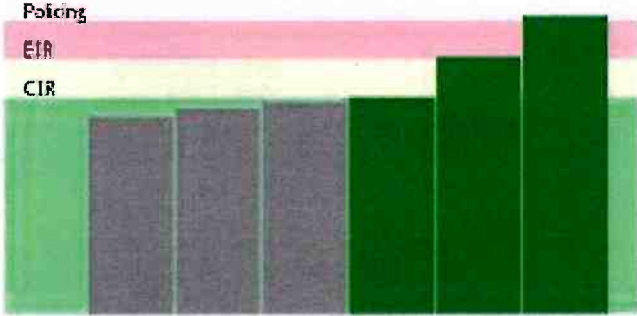
Frame Loss	<input checked="" type="checkbox"/>	
Delay	<input checked="" type="checkbox"/>	
Delay Var	<input checked="" type="checkbox"/>	

SAMComplete - Ethernet Service Activation Test: Service 1 Configuration Results



CIR Verdict	Pass
IR (L1 Mbps)	0.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.021
Frame Delay Variation (ms)	0.002
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	2.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.021
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	2.62
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.021
Frame Delay Variation (ms)	0.000
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Service 2 Configuration Results	
<p>Dati </p>  <p style="text-align: center;">Steps</p>	
CIR Verdict	Pass
IR (L1 Mbps)	19.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.074
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	44.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.074
Frame Delay Variation (ms)	0.001
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	50.25
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.074
Frame Delay Variation (ms)	0.000
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Service 3 Configuration Results	
<p>HDTV </p> 	
CIR Verdict	Pass
IR (L1 Mbps)	112.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.074
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	262.01
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.074
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	295.50
Frame Loss Ratio	0.013394039
Frame Delay (RTD, ms)	0.074
Frame Delay Variation (ms)	0.002
Error Frame Detect	Yes
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Overview Service Performance Results

Service	IR, Avg. (Throughput L1 Mbps)	Frame Loss Ratio	Delay Avg. (RTD, ms)	Delay Var. Max. (ms)	OoS Count
✓ 1 Voice	0.12	0.000000000	0.043	0.018	0
✓ 2 Dati	19.00	0.000000000	0.074	0.002	0
✓ 3 HDTV	112.00	0.000000000	0.074	0.002	0

SAMComplete - Ethernet Service Activation Test: IR Service Performance Results

Service	IR, Cur. (L1 Mbps)	IR, Max. (L1 Mbps)	IR, Min. (L1 Mbps)	IR, Avg. (Throughput L1 Mbps)	CIR (L1 Mbps)
✓ 1 Voice	0.12	0.12	0.12	0.12	0.12
✓ 2 Dati	18.99	19.00	18.99	19.00	19.00
✓ 3 HDTV	112.00	112.01	112.00	112.00	112.00

SAMComplete - Ethernet Service Activation Test: Frame Loss Service Performance Results

	Service	Frame Loss Count	Frame Loss Ratio	Frame Loss Ratio Threshold
✓1	Voice	0	0.000000000	0.000000000
✓2	Dati	0	0.000000000	0.000000000
✓3	HDTV	0	0.000000000	0.000000000

SAMComplete - Ethernet Service Activation Test: Delay Service Performance Results

	Service	Delay Cur (RTD, ms)	Delay Max. (RTD, ms)	Delay Min. (RTD, ms)	Delay Avg. (RTD, ms)	Delay Threshold (RTD, ms)
✓1	Voice	0.047	0.074	0.021	0.043	2.000
✓2	Dati	0.074	0.086	0.073	0.074	2.000
✓3	HDTV	0.074	0.086	0.073	0.074	2.000

SAMComplete - Ethernet Service Activation Test: Delay Variation Service Performance Results

Service	Delay Var. Cur (ms)	Delay Var. Max. (ms)	Delay Var. Avg. (ms)	Delay Var. Threshold (ms)
✓ 1 Voice	0.001	0.018	0.011	0.500
✓ 2 Dati	0.000	0.002	0.000	0.500
✓ 3 HDTV	0.000	0.002	0.000	0.500

SAMComplete - Ethernet Service Activation Test: Availability Service Performance Results

Service	Availability	Available Seconds Ratio	Unavailable Seconds	Severely Errored Seconds
✓ 1 Voice	Available	1.000	0	0
✓ 2 Dati	Available	1.000	0	0
✓ 3 HDTV	Available	1.000	0	0

SAMComplete - Ethernet Service Activation Test: Connect (Local Settings)

Frame Type	DIX
Optics Selection	--

SAMComplete - Ethernet Service Activation Test: Local Advanced Settings

Loop Type	Broadcast
Source MAC	Factory Default
Default Source MAC	00-80-16-94-86-B2

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

Auto Negotiation	On
Pause Capable	Both Rx and Tx
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Local Auto Negotiation Status	
Auto Negotiation	On
Pause Capable	Both Rx and Tx
Speed (Mbps)	1000
Duplex	Full
10Base-TX FDX	Yes
10Base-TX HDX	Yes
100Base-TX FDX	Yes
100Base-TX HDX	Yes
1000Base-TX FDX	Yes
1000Base-TX HDX	No
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Network (Services)	
Number of Services	3
Layer	L1
Test Mode	Traffic

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)				
<i>Service</i>	<i>Frame Size</i>	<i>User Size</i>	<i>Dest. MAC Address</i>	<i>EtherType</i>
Voice	User Defined	128	00-80-16-DA-F1-DC	0x0800
Dati	User Defined	1374	00-80-16-DA-F1-DC	0x0800
HDTV	User Defined	1374	00-80-16-DA-F1-DC	0x0800

SAMComplete - Ethernet Service Activation Test: Network (Tagging)					
<i>Service</i>	<i>Encapsulation</i>	<i>VLAN ID</i>	<i>User Pri.</i>	<i>SVLAN ID</i>	<i>SVLAN Pri.</i>
Voice	None	---	---	---	---
Dati	None	---	---	---	---

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

HDTV	None	---	---	---	---
------	------	-----	-----	-----	-----

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)			
Service	DEI Bit	TPID	
Voice	---	---	
Dati	---	---	
HDTV	---	---	

SAMComplete - Ethernet Service Activation Test: SLA Throughput				
Service	CIR	EIR	Policing	Max Load
Voice	0.12	2.00	ON	2.62
Dati	19.00	25.00	ON	50.25
HDTV	112.00	150.00	ON	299.50

SAMComplete - Ethernet Service Activation Test: SLA Policing			
Service	CIR+EIR	M	Max Policing
Voice	2.12	0	4.12
Dati	44.00	0	110.00
HDTV	262.00	0	572.00

SAMComplete - Ethernet Service Activation Test: SLA Burst	
Perform Burst Testing	No

SAMComplete - Ethernet Service Activation Test: SLA Performance			
Service	Frame Loss Ratio	Frame Delay (RTD, ms)	Delay Variation (ms)
Voice	0.000000000	2.000	0.500
Dati	0.000000000	2.000	0.500
HDTV	0.000000000	2.000	0.500

SAMComplete - Ethernet Service Activation Test: SLA Performance	
Include Frame Delay as an SLA requirement	ON
Include Frame Delay Variation as an SLA requirement	ON

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term


SAMComplete - Ethernet Service Activation Test: Test Controls (Test Ctls)	
Number of Steps Below CIR	3
Step Duration (sec)	15
Step 1 % CIR	90
Step 2 % CIR	95
Step 3 % CIR	98
Performance Test Duration	1 Minute




Generated by Viavi 4800


Customer Name	SECONDARA BAGNATICA
Technician ID	SR
Test Location	Piano terra
Work Order	--
Comments/Notes	--
Instrument	SC4800
Serial Number	WMNE0051320025
SW Version	30.1.0




SAMComplete Overall Test Result: Pass

Start Date	10/27/2022
End Date	10/27/2022
Start Time	4:09:31 PM CEST
End Time	4:14:09 PM CEST

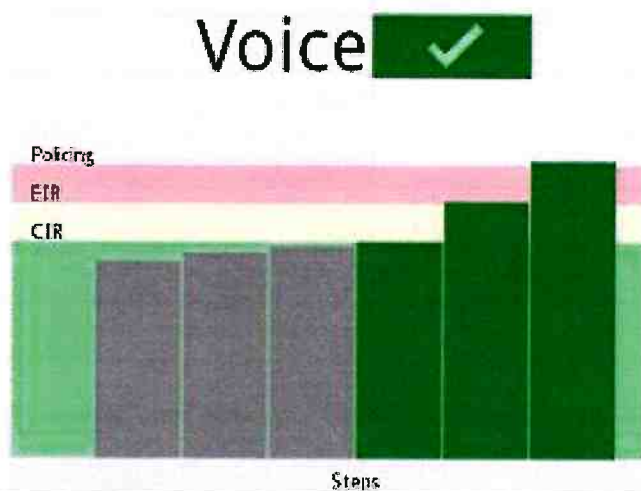
 **Service Configuration**

1	Voice	<input checked="" type="checkbox"/>	
2	Dati	<input checked="" type="checkbox"/>	
3	HDTV	<input checked="" type="checkbox"/>	


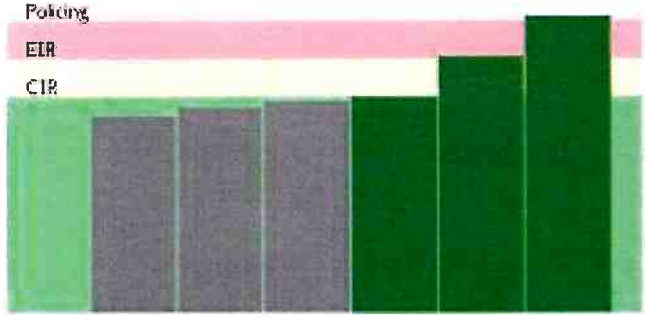
 **Service Performance**

Frame Loss	<input checked="" type="checkbox"/>	
Delay	<input checked="" type="checkbox"/>	
Delay Var	<input checked="" type="checkbox"/>	

SAMComplete - Ethernet Service Activation Test: Service 1 Configuration Results

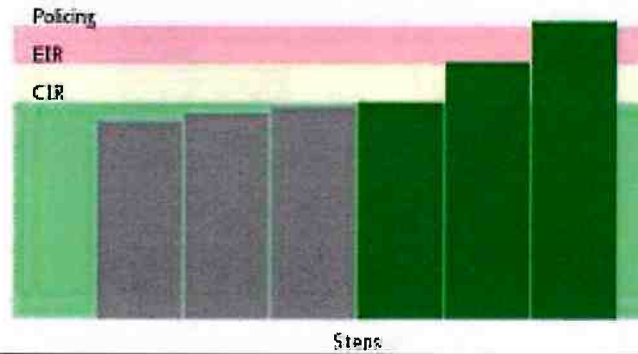


CIR Verdict	Pass
IR (L1 Mbps)	0.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.013
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	2.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.013
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	2.62
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.013
Frame Delay Variation (ms)	0.000
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Service 2 Configuration Results	
<p style="font-size: 2em; font-weight: bold;">Dati </p> 	
CIR Verdict	Pass
IR (L1 Mbps)	19.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	44.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	50.25
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Service 3 Configuration Results

HDTV 



CIR Verdict	Pass
IR (L1 Mbps)	112.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	262.01
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	299.51
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Overview Service Performance Results

	Service	IR, Avg. (Throughput L1 Mbps)	Frame Loss Ratio	Delay Avg. (RTD, ms)	Delay Var. Max. (ms)	OoS Count
✓ 1	Voice	0.12	0.000000000	0.023	0.011	0
✓ 2	Dati	19.00	0.000000000	0.045	0.000	0
✓ 3	HDTV	112.00	0.000000000	0.045	0.000	0

SAMComplete - Ethernet Service Activation Test: IR Service Performance Results

	Service	IR, Cur. (L1 Mbps)	IR, Max. (L1 Mbps)	IR, Min. (L1 Mbps)	IR, Avg. (Throughput L1 Mbps)	CIR (L1 Mbps)
✓ 1	Voice	0.12	0.12	0.12	0.12	0.12
✓ 2	Dati	19.00	19.00	18.99	19.00	19.00
✓ 3	HDTV	112.00	112.01	112.00	112.00	112.00

SAMComplete - Ethernet Service Activation Test: Frame Loss Service Performance Results

Service	Frame Loss Count	Frame Loss Ratio	Frame Loss Ratio Threshold
✓ 1 Voice	0	0.000000000	0.000000000
✓ 2 Dati	0	0.000000000	0.000000000
✓ 3 HDTV	0	0.000000000	0.000000000

SAMComplete - Ethernet Service Activation Test: Delay Service Performance Results

Service	Delay Cur (RTD, ms)	Delay Max. (RTD, ms)	Delay Min. (RTD, ms)	Delay Avg. (RTD, ms)	Delay Threshold (RTD, ms)
✓ 1 Voice	0.024	0.045	0.012	0.023	2.000
✓ 2 Dati	0.045	0.045	0.044	0.045	2.000
✓ 3 HDTV	0.045	0.046	0.044	0.045	2.000

SAMComplete - Ethernet Service Activation Test: Delay Variation Service Performance Results

Service	Delay Var. Cur (ms)	Delay Var. Max. (ms)	Delay Var. Avg. (ms)	Delay Var. Threshold (ms)
✓ 1 Voice	0.001	0.011	0.007	0.500
✓ 2 Dati	0.000	0.000	0.000	0.500
✓ 3 HDTV	0.000	0.000	0.000	0.500

SAMComplete - Ethernet Service Activation Test: Availability Service Performance Results

Service	Availability	Available Seconds Ratio	Unavailable Seconds	Severely Errored Seconds
✓ 1 Voice	Available	1.000	0	0
✓ 2 Dati	Available	1.000	0	0
✓ 3 HDTV	Available	1.000	0	0

SAMComplete - Ethernet Service Activation Test: Connect (Local Settings)

Frame Type	DIX
Optics Selection	--

SAMComplete - Ethernet Service Activation Test: Local Advanced Settings

Loop Type	Broadcast
Source MAC	Factory Default
Default Source MAC	00-80-16-94-86-B2

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

Auto Negotiation	On
Pause Capable	Both Rx and Tx
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Local Auto Negotiation Status	
Auto Negotiation	On
Pause Capable	Both Rx and Tx
Speed (Mbps)	1000
Duplex	Full
10Base-TX FDX	Yes
10Base-TX HDX	Yes
100Base-TX FDX	Yes
100Base-TX HDX	Yes
1000Base-TX FDX	Yes
1000Base-TX HDX	No
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Network (Services)	
Number of Services	3
Layer	L1
Test Mode	Traffic

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)				
<i>Service</i>	<i>Frame Size</i>	<i>User Size</i>	<i>Dest. MAC Address</i>	<i>EtherType</i>
Voice	User Defined	128	00-80-16-DA-F1-DC	0x0800
Dati	User Defined	1374	00-80-16-DA-F1-DC	0x0800
HDTV	User Defined	1374	00-80-16-DA-F1-DC	0x0800

SAMComplete - Ethernet Service Activation Test: Network (Tagging)					
<i>Service</i>	<i>Encapsulation</i>	<i>VLAN ID</i>	<i>User Pri.</i>	<i>SVLAN ID</i>	<i>SVLAN Pri.</i>
Voice	None	---	---	---	---
Dati	None	---	---	---	---

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

HDTV	None	---	---	---	---
------	------	-----	-----	-----	-----

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)

<i>Service</i>	<i>DEI Bit</i>	<i>TPID</i>
Voice	---	---
Dati	---	---
HDTV	---	---

SAMComplete - Ethernet Service Activation Test: SLA Throughput

<i>Service</i>	<i>CIR</i>	<i>EIR</i>	<i>Policing</i>	<i>Max Load</i>
Voice	0.12	2.00	ON	2.62
Dati	19.00	25.00	ON	50.25
HDTV	112.00	150.00	ON	299.50

SAMComplete - Ethernet Service Activation Test: SLA Policing

<i>Service</i>	<i>CIR+EIR</i>	<i>M</i>	<i>Max Policing</i>
Voice	2.12	0	4.12
Dati	44.00	0	110.00
HDTV	262.00	0	572.00

SAMComplete - Ethernet Service Activation Test: SLA Burst

Perform Burst Testing	No
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SAMComplete - Ethernet Service Activation Test: SLA Performance

<i>Service</i>	<i>Frame Loss Ratio</i>	<i>Frame Delay (RTD, ms)</i>	<i>Delay Variation (ms)</i>
Voice	0.000000000	2.000	0.500
Dati	0.000000000	2.000	0.500
HDTV	0.000000000	2.000	0.500

SAMComplete - Ethernet Service Activation Test: SLA Performance

Include Frame Delay as an SLA requirement	ON
Include Frame Delay Variation as an SLA requirement	ON

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term


SAMComplete - Ethernet Service Activation Test: Test Controls (Test Ctls)	
Number of Steps Below CIR	3
Step Duration (sec)	15
Step 1 % CIR	90
Step 2 % CIR	95
Step 3 % CIR	98
Performance Test Duration	1 Minute




Generated by Viavi 4800


Customer Name	Primaria Costa di Mezzate
Technician ID	SR
Test Location	PT Lab Info
Work Order	--
Comments/Notes	--
Instrument	SC4800
Serial Number	WMNE0051320025
SW Version	30.1.0




SAMComplete Overall Test Result: Pass

Start Date	10/27/2022
End Date	10/27/2022
Start Time	4:39:05 PM CEST
End Time	4:43:42 PM CEST

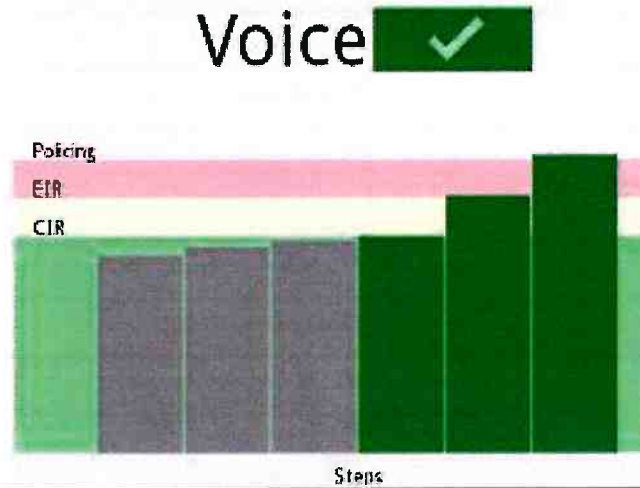
 **Service Configuration**

1	Voice	<input checked="" type="checkbox"/>	
2	Dati	<input checked="" type="checkbox"/>	
3	HDTV	<input checked="" type="checkbox"/>	

 **Service Performance**

Frame Loss	<input checked="" type="checkbox"/>	
Delay	<input checked="" type="checkbox"/>	
Delay Var	<input checked="" type="checkbox"/>	

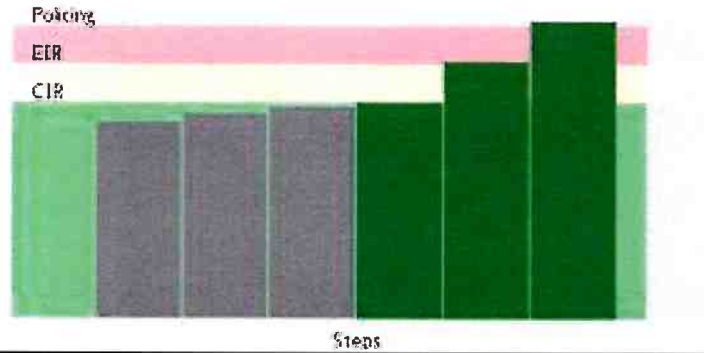
SAMComplete - Ethernet Service Activation Test: Service 1 Configuration Results



CIR Verdict	Pass
IR (L1 Mbps)	0.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.013
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	2.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.013
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	2.62
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.013
Frame Delay Variation (ms)	0.000
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Service 2 Configuration Results

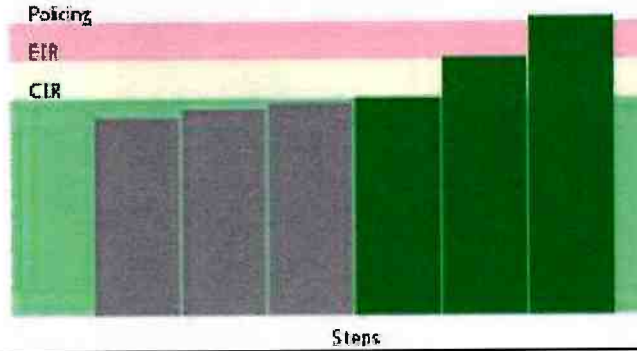
Dati 



CIR Verdict	Pass
IR (L1 Mbps)	19.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	44.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	50.25
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Service 3 Configuration Results

HDTV 



CIR Verdict	Pass
IR (L1 Mbps)	112.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	262.01
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	299.51
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Overview Service Performance Results

	Service	IR, Avg. (Throughput L1 Mbps)	Frame Loss Ratio	Delay Avg. (RTD, ms)	Delay Var. Max. (ms)	OoS Count
✓1	Voice	0.12	0.000000000	0.022	0.011	0
✓2	Dati	19.00	0.000000000	0.045	0.000	0
✓3	HDTV	112.00	0.000000000	0.045	0.000	0

SAMComplete - Ethernet Service Activation Test: IR Service Performance Results

	Service	IR, Cur. (L1 Mbps)	IR, Max. (L1 Mbps)	IR, Min. (L1 Mbps)	IR, Avg. (Throughput L1 Mbps)	CIR (L1 Mbps)
✓1	Voice	0.12	0.12	0.12	0.12	0.12
✓2	Dati	18.99	19.00	18.99	19.00	19.00
✓3	HDTV	112.01	112.01	112.00	112.00	112.00

SAMComplete - Ethernet Service Activation Test: Frame Loss Service Performance Results

Service	Frame Loss Count	Frame Loss Ratio	Frame Loss Ratio Threshold
✓1 Voice	0	0.000000000	0.000000000
✓2 Dati	0	0.000000000	0.000000000
✓3 HDTV	0	0.000000000	0.000000000

SAMComplete - Ethernet Service Activation Test: Delay Service Performance Results

Service	Delay Cur (RTD, ms)	Delay Max. (RTD, ms)	Delay Min. (RTD, ms)	Delay Avg. (RTD, ms)	Delay Threshold (RTD, ms)
✓1 Voice	0.024	0.045	0.012	0.022	2.000
✓2 Dati	0.045	0.046	0.044	0.045	2.000
✓3 HDTV	0.045	0.046	0.044	0.045	2.000

SAMComplete - Ethernet Service Activation Test: Delay Variation Service Performance Results

Service	Delay Var. Cur (ms)	Delay Var. Max. (ms)	Delay Var. Avg. (ms)	Delay Var. Threshold (ms)
✓ 1 Voice	0.000	0.011	0.008	0.500
✓ 2 Dati	0.000	0.000	0.000	0.500
✓ 3 HDTV	0.000	0.000	0.000	0.500

SAMComplete - Ethernet Service Activation Test: Availability Service Performance Results

Service	Availability	Available Seconds Ratio	Unavailable Seconds	Severely Errored Seconds
✓ 1 Voice	Available	1.000	0	0
✓ 2 Dati	Available	1.000	0	0
✓ 3 HDTV	Available	1.000	0	0

SAMComplete - Ethernet Service Activation Test: Connect (Local Settings)

Frame Type	DIX
Optics Selection	--

SAMComplete - Ethernet Service Activation Test: Local Advanced Settings

Loop Type	Broadcast
Source MAC	Factory Default
Default Source MAC	00-80-16-94-86-B2

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

Auto Negotiation	On
Pause Capable	Both Rx and Tx
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Local Auto Negotiation Status	
Auto Negotiation	On
Pause Capable	Both Rx and Tx
Speed (Mbps)	1000
Duplex	Full
10Base-TX FDX	Yes
10Base-TX HDX	Yes
100Base-TX FDX	Yes
100Base-TX HDX	Yes
1000Base-TX FDX	Yes
1000Base-TX HDX	No
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Network (Services)	
Number of Services	3
Layer	L1
Test Mode	Traffic

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)				
<i>Service</i>	<i>Frame Size</i>	<i>User Size</i>	<i>Dest. MAC Address</i>	<i>EtherType</i>
Voice	User Defined	128	00-80-16-DA-F1-DC	0x0800
Dati	User Defined	1374	00-80-16-DA-F1-DC	0x0800
HDTV	User Defined	1374	00-80-16-DA-F1-DC	0x0800

SAMComplete - Ethernet Service Activation Test: Network (Tagging)					
<i>Service</i>	<i>Encapsulation</i>	<i>VLAN ID</i>	<i>User Pri.</i>	<i>SVLAN ID</i>	<i>SVLAN Pri.</i>
Voice	None	---	---	---	---
Dati	None	---	---	---	---

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

HDTV	None	---	---	---	---
------	------	-----	-----	-----	-----

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)

<i>Service</i>	<i>DEI Bit</i>	<i>TPID</i>
Voice	---	---
Dati	---	---
HDTV	---	---

SAMComplete - Ethernet Service Activation Test: SLA Throughput

<i>Service</i>	<i>CIR</i>	<i>EIR</i>	<i>Policing</i>	<i>Max Load</i>
Voice	0.12	2.00	ON	2.62
Dati	19.00	25.00	ON	50.25
HDTV	112.00	150.00	ON	299.50

SAMComplete - Ethernet Service Activation Test: SLA Policing

<i>Service</i>	<i>CIR+EIR</i>	<i>M</i>	<i>Max Policing</i>
Voice	2.12	0	4.12
Dati	44.00	0	110.00
HDTV	262.00	0	572.00

SAMComplete - Ethernet Service Activation Test: SLA Burst

Perform Burst Testing	No
-----------------------	----

SAMComplete - Ethernet Service Activation Test: SLA Performance

<i>Service</i>	<i>Frame Loss Ratio</i>	<i>Frame Delay (RTD, ms)</i>	<i>Delay Variation (ms)</i>
Voice	0.000000000	2.000	0.500
Dati	0.000000000	2.000	0.500
HDTV	0.000000000	2.000	0.500

SAMComplete - Ethernet Service Activation Test: SLA Performance

Include Frame Delay as an SLA requirement	ON
Include Frame Delay Variation as an SLA requirement	ON

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term


SAMComplete - Ethernet Service Activation Test: Test Controls (Test Ctls)	
Number of Steps Below CIR	3
Step Duration (sec)	15
Step 1 % CIR	90
Step 2 % CIR	95
Step 3 % CIR	98
Performance Test Duration	1 Minute




Generated by Viavi 4800


Customer Name	Secondaria Costa di Mezzare
Technician ID	SR
Test Location	Piano Terra
Work Order	--
Comments/Notes	--
Instrument	SC4800
Serial Number	WMNE0051320025
SW Version	30.1.0




SAMComplete Overall Test Result: Pass

Start Date	10/27/2022
End Date	10/27/2022
Start Time	4:48:04 PM CEST
End Time	4:52:41 PM CEST

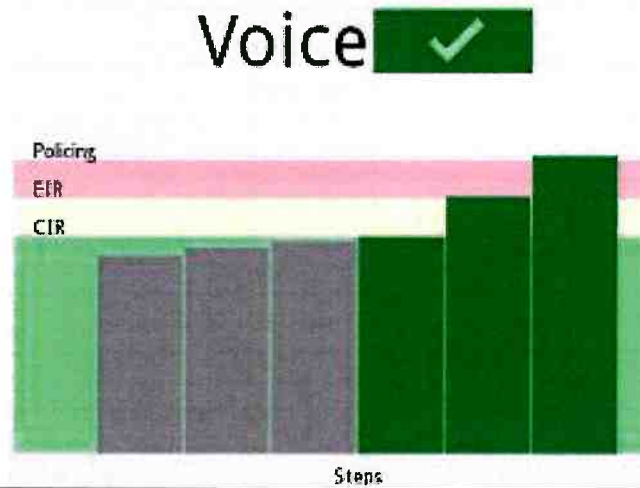
 **Service Configuration**

1	Voice	<input checked="" type="checkbox"/>	
2	Dati	<input checked="" type="checkbox"/>	
3	HDTV	<input checked="" type="checkbox"/>	

 **Service Performance**

Frame Loss	<input checked="" type="checkbox"/>	
Delay	<input checked="" type="checkbox"/>	
Delay Var	<input checked="" type="checkbox"/>	

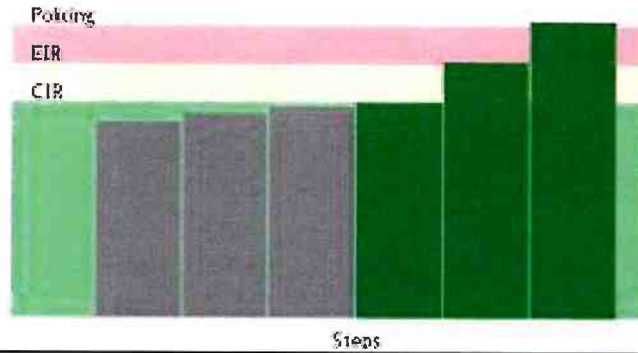
SAMComplete - Ethernet Service Activation Test: Service 1 Configuration Results



CIR Verdict	Pass
IR (L1 Mbps)	0.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.013
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	2.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.013
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	2.62
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.013
Frame Delay Variation (ms)	0.000
Pause Detect	No

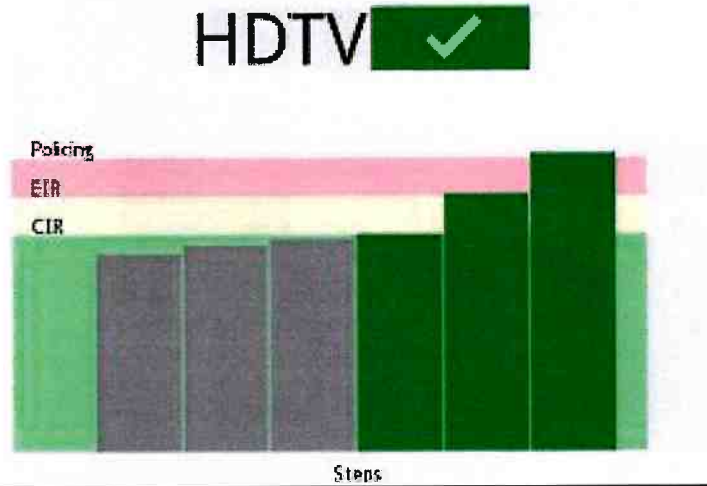
SAMComplete - Ethernet Service Activation Test: Service 2 Configuration Results

Dati 



CIR Verdict	Pass
IR (L1 Mbps)	19.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	44.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	50.25
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Service 3 Configuration Results



CIR Verdict	Pass
IR (L1 Mbps)	112.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	262.01
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	299.51
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.045
Frame Delay Variation (ms)	0.001
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Overview Service Performance Results

	Service	IR, Avg. (Throughput L1 Mbps)	Frame Loss Ratio	Delay Avg. (RTD, ms)	Delay Var. Max. (ms)	DoS Count
✓1	Voice	0.12	0.000000000	0.023	0.011	0
✓2	Dati	19.00	0.000000000	0.045	0.001	0
✓3	HDTV	112.00	0.000000000	0.045	0.001	0

SAMComplete - Ethernet Service Activation Test: IR Service Performance Results

	Service	IR, Cur. (L1 Mbps)	IR, Max. (L1 Mbps)	IR, Min. (L1 Mbps)	IR, Avg. (Throughput L1 Mbps)	CIR (L1 Mbps)
✓1	Voice	0.12	0.12	0.12	0.12	0.12
✓2	Dati	18.99	19.00	18.99	19.00	19.00
✓3	HDTV	112.00	112.01	112.00	112.00	112.00

SAMComplete - Ethernet Service Activation Test: Frame Loss Service Performance Results

Service	Frame Loss Count	Frame Loss Ratio	Frame Loss Ratio Threshold
✓1 Voice	0	0.000000000	0.000000000
✓2 Dati	0	0.000000000	0.000000000
✓3 HDTV	0	0.000000000	0.000000000

SAMComplete - Ethernet Service Activation Test: Delay Service Performance Results

Service	Delay Cur (RTD, ms)	Delay Max. (RTD, ms)	Delay Min. (RTD, ms)	Delay Avg. (RTD, ms)	Delay Threshold (RTD, ms)
✓1 Voice	0.024	0.045	0.012	0.023	2.000
✓2 Dati	0.045	0.050	0.044	0.045	2.000
✓3 HDTV	0.045	0.048	0.044	0.045	2.000

SAMComplete - Ethernet Service Activation Test: Delay Variation Service Performance Results

Service	Delay Var. Cur (ms)	Delay Var. Max. (ms)	Delay Var. Avg. (ms)	Delay Var. Threshold (ms)
✓1 Voice	0.000	0.011	0.007	0.500
✓2 Dati	0.000	0.001	0.000	0.500
✓3 HDTV	0.000	0.001	0.000	0.500

SAMComplete - Ethernet Service Activation Test: Availability Service Performance Results

Service	Availability	Available Seconds Ratio	Unavailable Seconds	Severely Errored Seconds
✓1 Voice	Available	1.000	0	0
✓2 Dati	Available	1.000	0	0
✓3 HDTV	Available	1.000	0	0

SAMComplete - Ethernet Service Activation Test: Connect (Local Settings)

Frame Type	DIX
Optics Selection	--

SAMComplete - Ethernet Service Activation Test: Local Advanced Settings

Loop Type	Broadcast
Source MAC	Factory Default
Default Source MAC	00-80-16-94-86-B2

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

Auto Negotiation	On
Pause Capable	Both Rx and Tx
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Local Auto Negotiation Status

Auto Negotiation	On
Pause Capable	Both Rx and Tx
Speed (Mbps)	1000
Duplex	Full
10Base-TX FDX	Yes
10Base-TX HDX	Yes
100Base-TX FDX	Yes
100Base-TX HDX	Yes
1000Base-TX FDX	Yes
1000Base-TX HDX	No
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Network (Services)

Number of Services	3
Layer	L1
Test Mode	Traffic

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)

<i>Service</i>	<i>Frame Size</i>	<i>User Size</i>	<i>Dest. MAC Address</i>	<i>EtherType</i>
Voice	User Defined	128	00-80-16-DA-F1-DC	0x0800
Dati	User Defined	1374	00-80-16-DA-F1-DC	0x0800
HDTV	User Defined	1374	00-80-16-DA-F1-DC	0x0800

SAMComplete - Ethernet Service Activation Test: Network (Tagging)

<i>Service</i>	<i>Encapsulation</i>	<i>VLAN ID</i>	<i>User Pri.</i>	<i>SVLAN ID</i>	<i>SVLAN Pri.</i>
Voice	None	---	---	---	---
Dati	None	---	---	---	---

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

HDTV	None	---	---	---	---
------	------	-----	-----	-----	-----

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)		
<i>Service</i>	<i>DEI Bit</i>	<i>TPID</i>
Voice	---	---
Dati	---	---
HDTV	---	---

SAMComplete - Ethernet Service Activation Test: SLA Throughput				
<i>Service</i>	<i>CIR</i>	<i>EIR</i>	<i>Policing</i>	<i>Max Load</i>
Voice	0.12	2.00	ON	2.62
Dati	19.00	25.00	ON	50.25
HDTV	112.00	150.00	ON	299.50

SAMComplete - Ethernet Service Activation Test: SLA Policing			
<i>Service</i>	<i>CIR+EIR</i>	<i>M</i>	<i>Max Policing</i>
Voice	2.12	0	4.12
Dati	44.00	0	110.00
HDTV	262.00	0	572.00

SAMComplete - Ethernet Service Activation Test: SLA Burst	
Perform Burst Testing	No

SAMComplete - Ethernet Service Activation Test: SLA Performance			
<i>Service</i>	<i>Frame Loss Ratio</i>	<i>Frame Delay (RTD, ms)</i>	<i>Delay Variation (ms)</i>
Voice	0.000000000	2.000	0.500
Dati	0.000000000	2.000	0.500
HDTV	0.000000000	2.000	0.500

SAMComplete - Ethernet Service Activation Test: SLA Performance	
Include Frame Delay as an SLA requirement	ON
Include Frame Delay Variation as an SLA requirement	ON

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term


SAMComplete - Ethernet Service Activation Test: Test Controls (Test Ctls)	
Number of Steps Below CIR	3
Step Duration (sec)	15
Step 1 % CIR	90
Step 2 % CIR	95
Step 3 % CIR	98
Performance Test Duration	1 Minute




Generated by Viavi 4800


Customer Name	Secondaria Brusaporto
Technician ID	SR
Test Location	Presidenza
Work Order	--
Comments/Notes	--
Instrument	SC4800
Serial Number	WMNE0051320025
SW Version	30.1.0




SAMComplete Overall Test Result: Pass


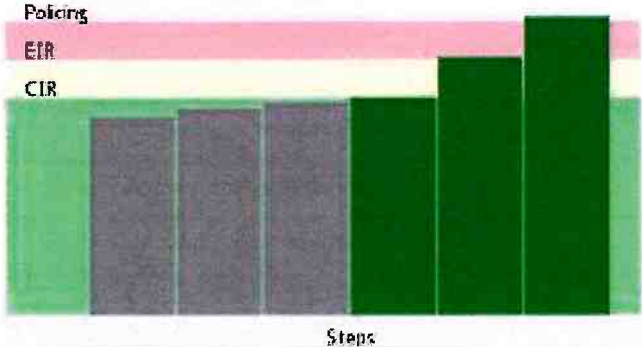
Start Date	10/27/2022
End Date	10/27/2022
Start Time	5:09:58 PM CEST
End Time	5:14:35 PM CEST

 **Service Configuration**

1	Voice	<input checked="" type="checkbox"/>	
2	Dati	<input checked="" type="checkbox"/>	
3	HDTV	<input checked="" type="checkbox"/>	

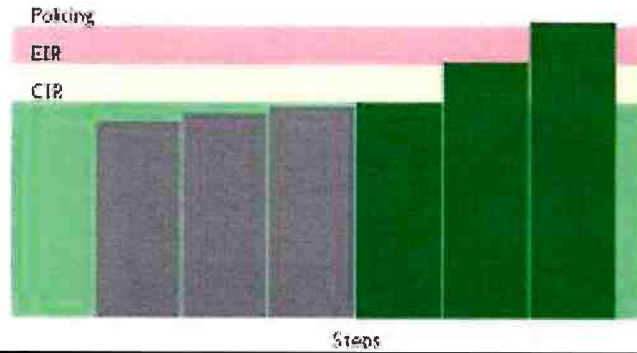
 **Service Performance**

Frame Loss	<input checked="" type="checkbox"/>	
Delay	<input checked="" type="checkbox"/>	
Delay Var	<input checked="" type="checkbox"/>	

SAMComplete - Ethernet Service Activation Test: Service 1 Configuration Results	
<p>Voice </p>  <p style="text-align: center;">Steps</p>	
CIR Verdict	Pass
IR (L1 Mbps)	0.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.021
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	2.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.021
Frame Delay Variation (ms)	0.001
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	2.62
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.021
Frame Delay Variation (ms)	0.000
Pause Detect	No

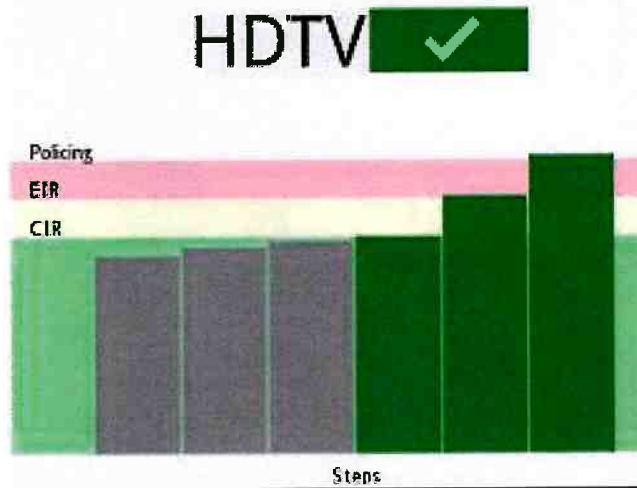
SAMComplete - Ethernet Service Activation Test: Service 2 Configuration Results

Dati 



CIR Verdict	Pass
IR (L1 Mbps)	19.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.073
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	44.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.073
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	50.25
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.073
Frame Delay Variation (ms)	0.001
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Service 3 Configuration Results



CIR Verdict	Pass
IR (L1 Mbps)	112.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.073
Frame Delay Variation (ms)	0.000
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	262.01
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.073
Frame Delay Variation (ms)	0.000
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	299.51
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.073
Frame Delay Variation (ms)	0.000
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Overview Service Performance Results

Service	IR, Avg. (Throughput L1 Mbps)	Frame Loss Ratio	Delay Avg. (RTD, ms)	Delay Var. Max. (ms)	OoS Count
✓ 1 Voice	0.12	0.000000000	0.042	0.018	0
✓ 2 Dati	19.00	0.000000000	0.073	0.003	0
✓ 3 HDTV	112.00	0.000000000	0.073	0.002	0

SAMComplete - Ethernet Service Activation Test: IR Service Performance Results

Service	IR, Cur. (L1 Mbps)	IR, Max. (L1 Mbps)	IR, Min. (L1 Mbps)	IR, Avg. (Throughput L1 Mbps)	CIR (L1 Mbps)
✓ 1 Voice	0.12	0.12	0.12	0.12	0.12
✓ 2 Dati	19.00	19.00	18.99	19.00	19.00
✓ 3 HDTV	112.00	112.01	112.00	112.00	112.00

SAMComplete - Ethernet Service Activation Test: Frame Loss Service Performance Results

	Service	Frame Loss Count	Frame Loss Ratio	Frame Loss Ratio Threshold
✓1	Voice	0	0.000000000	0.000000000
✓2	Data	0	0.000000000	0.000000000
✓3	HDTV	0	0.000000000	0.000000000

SAMComplete - Ethernet Service Activation Test: Delay Service Performance Results

	Service	Delay Cur (RTD, ms)	Delay Max. (RTD, ms)	Delay Min. (RTD, ms)	Delay Avg. (RTD, ms)	Delay Threshold (RTD, ms)
✓1	Voice	0.046	0.074	0.020	0.042	2.000
✓2	Data	0.073	0.091	0.073	0.073	2.000
✓3	HDTV	0.073	0.086	0.073	0.073	2.000

SAMComplete - Ethernet Service Activation Test: Delay Variation Service Performance Results

Service	Delay Var. Cur (ms)	Delay Var. Max. (ms)	Delay Var. Avg. (ms)	Delay Var. Threshold (ms)
✓ 1 Voice	0.000	0.018	0.010	0.500
✓ 2 Dati	0.000	0.003	0.000	0.500
✓ 3 HDTV	0.000	0.002	0.000	0.500

SAMComplete - Ethernet Service Activation Test: Availability Service Performance Results

Service	Availability	Available Seconds Ratio	Unavailable Seconds	Severely Errored Seconds
✓ 1 Voice	Available	1.000	0	0
✓ 2 Dati	Available	1.000	0	0
✓ 3 HDTV	Available	1.000	0	0

SAMComplete - Ethernet Service Activation Test: Connect (Local Settings)

Frame Type	DIX
Optics Selection	--

SAMComplete - Ethernet Service Activation Test: Local Advanced Settings

Loop Type	Broadcast
Source MAC	Factory Default
Default Source MAC	00-80-16-94-86-B2

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

Auto Negotiation	On
Pause Capable	Both Rx and Tx
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Local Auto Negotiation Status	
Auto Negotiation	On
Pause Capable	Both Rx and Tx
Speed (Mbps)	1000
Duplex	Full
10Base-TX FDX	Yes
10Base-TX HDX	Yes
100Base-TX FDX	Yes
100Base-TX HDX	Yes
1000Base-TX FDX	Yes
1000Base-TX HDX	No
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Network (Services)	
Number of Services	3
Layer	L1
Test Mode	Traffic

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)				
<i>Service</i>	<i>Frame Size</i>	<i>User Size</i>	<i>Dest. MAC Address</i>	<i>EtherType</i>
Voice	User Defined	128	00-80-16-DA-F1-DC	0x0800
Dati	User Defined	1374	00-80-16-DA-F1-DC	0x0800
HDTV	User Defined	1374	00-80-16-DA-F1-DC	0x0800

SAMComplete - Ethernet Service Activation Test: Network (Tagging)					
<i>Service</i>	<i>Encapsulation</i>	<i>VLAN ID</i>	<i>User Pri.</i>	<i>SVLAN ID</i>	<i>SVLAN Pri.</i>
Voice	None	---	---	---	---
Dati	None	---	---	---	---

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

HDTV	None	---	---	---	---
------	------	-----	-----	-----	-----

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)		
<i>Service</i>	<i>DEI Bit</i>	<i>TPID</i>
Voice	---	---
Dati	---	---
HDTV	---	---

SAMComplete - Ethernet Service Activation Test: SLA Throughput				
<i>Service</i>	<i>CIR</i>	<i>EIR</i>	<i>Policing</i>	<i>Max Load</i>
Voice	0.12	2.00	ON	2.62
Dati	19.00	25.00	ON	50.25
HDTV	112.00	150.00	ON	299.50

SAMComplete - Ethernet Service Activation Test: SLA Policing			
<i>Service</i>	<i>CIR+EIR</i>	<i>M</i>	<i>Max Policing</i>
Voice	2.12	0	4.12
Dati	44.00	0	110.00
HDTV	262.00	0	572.00

SAMComplete - Ethernet Service Activation Test: SLA Burst	
Perform Burst Testing	No

SAMComplete - Ethernet Service Activation Test: SLA Performance			
<i>Service</i>	<i>Frame Loss Ratio</i>	<i>Frame Delay (RTD, ms)</i>	<i>Delay Variation (ms)</i>
Voice	0.000000000	2.000	0.500
Dati	0.000000000	2.000	0.500
HDTV	0.000000000	2.000	0.500

SAMComplete - Ethernet Service Activation Test: SLA Performance	
Include Frame Delay as an SLA requirement	ON
Include Frame Delay Variation as an SLA requirement	ON

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term


SAMComplete - Ethernet Service Activation Test: Test Controls (Test Ctls)	
Number of Steps Below CIR	3
Step Duration (sec)	15
Step 1 % CIR	90
Step 2 % CIR	95
Step 3 % CIR	98
Performance Test Duration	1 Minute




Generated by Viavi 4800


Customer Name	Primaria Brusaporto
Technician ID	SR
Test Location	Aula 5A
Work Order	--
Comments/Notes	--
Instrument	SC4800
Serial Number	WMNE0051320025
SW Version	30.1.0




SAMComplete Overall Test Result: Pass

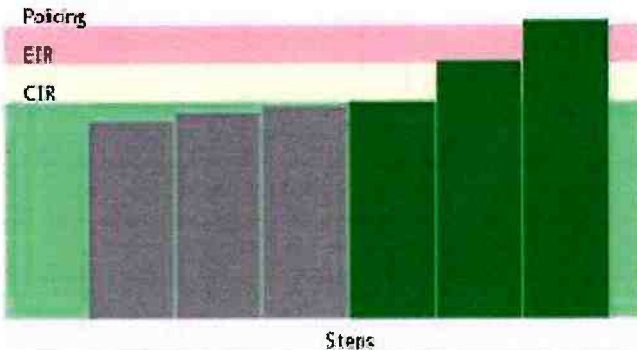
Start Date	10/27/2022
End Date	10/27/2022
Start Time	5:22:16 PM CEST
End Time	5:26:53 PM CEST

 **Service Configuration**

1	Voice	<input checked="" type="checkbox"/>	
2	Dati	<input checked="" type="checkbox"/>	
3	HDTV	<input checked="" type="checkbox"/>	

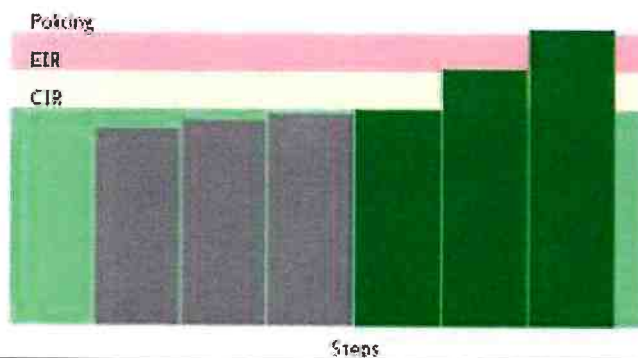
 **Service Performance**

Frame Loss	<input checked="" type="checkbox"/>	
Delay	<input checked="" type="checkbox"/>	
Delay Var	<input checked="" type="checkbox"/>	

SAMComplete - Ethernet Service Activation Test: Service 1 Configuration Results	
<h1 style="margin: 0;">Voice ✓</h1> 	
CIR Verdict	Pass
IR (L1 Mbps)	0.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.020
Frame Delay Variation (ms)	0.002
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	2.12
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.020
Frame Delay Variation (ms)	0.003
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	2.62
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.020
Frame Delay Variation (ms)	0.004
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Service 2 Configuration Results

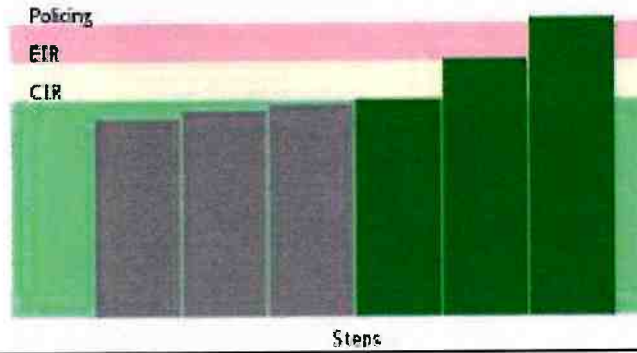
Dati 



CIR Verdict	Pass
IR (L1 Mbps)	19.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.073
Frame Delay Variation (ms)	0.006
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	44.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.072
Frame Delay Variation (ms)	0.005
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	50.25
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.072
Frame Delay Variation (ms)	0.001
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Service 3 Configuration Results

HDTV 



CIR Verdict	Pass
IR (L1 Mbps)	112.00
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.072
Frame Delay Variation (ms)	0.004
Pause Detect	No
EIR Verdict	Pass
IR (L1 Mbps)	262.01
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.072
Frame Delay Variation (ms)	0.001
Pause Detect	No
Policing Verdict	Pass
IR (L1 Mbps)	299.51
Frame Loss Ratio	0.000000000
Frame Delay (RTD, ms)	0.072
Frame Delay Variation (ms)	0.011
Pause Detect	No

SAMComplete - Ethernet Service Activation Test: Overview Service Performance Results

Service	IR, Avg. (Throughput L1 Mbps)	Frame Loss Ratio	Delay Avg. (RTD, ms)	Delay Var. Max. (ms)	OoS Count
✓ 1 Voice	0.12	0.000000000	0.042	0.018	0
✓ 2 Dati	19.00	0.000000000	0.072	0.000	0
✓ 3 HDTV	112.00	0.000000000	0.072	0.001	0

SAMComplete - Ethernet Service Activation Test: IR Service Performance Results

Service	IR, Cur. (L1 Mbps)	IR, Max. (L1 Mbps)	IR, Min. (L1 Mbps)	IR, Avg. (Throughput L1 Mbps)	CIR (L1 Mbps)
✓ 1 Voice	0.12	0.12	0.12	0.12	0.12
✓ 2 Dati	19.00	19.00	18.99	19.00	19.00
✓ 3 HDTV	112.00	112.01	112.00	112.00	112.00

SAMComplete - Ethernet Service Activation Test: Frame Loss Service Performance Results

Service	Frame Loss Count	Frame Loss Ratio	Frame Loss Ratio Threshold
✓1 Voice	0	0.000000000	0.000000000
✓2 Dati	0	0.000000000	0.000000000
✓3 HDTV	0	0.000000000	0.000000000

SAMComplete - Ethernet Service Activation Test: Delay Service Performance Results

Service	Delay Cur (RTD, ms)	Delay Max. (RTD, ms)	Delay Min. (RTD, ms)	Delay Avg. (RTD, ms)	Delay Threshold (RTD, ms)
✓1 Voice	0.046	0.073	0.019	0.042	2.000
✓2 Dati	0.073	0.075	0.072	0.072	2.000
✓3 HDTV	0.073	0.079	0.072	0.072	2.000

SAMComplete - Ethernet Service Activation Test: Delay Variation Service Performance Results

Service	Delay Var. Cur (ms)	Delay Var. Max. (ms)	Delay Var. Avg. (ms)	Delay Var. Threshold (ms)
✓ 1 Voice	0.006	0.018	0.011	0.500
✓ 2 Data	0.000	0.000	0.000	0.500
✓ 3 HDTV	0.000	0.001	0.000	0.500

SAMComplete - Ethernet Service Activation Test: Availability Service Performance Results

Service	Availability	Available Seconds Ratio	Unavailable Seconds	Severely Errored Seconds
✓ 1 Voice	Available	1.000	0	0
✓ 2 Data	Available	1.000	0	0
✓ 3 HDTV	Available	1.000	0	0

SAMComplete - Ethernet Service Activation Test: Connect (Local Settings)

Frame Type	DIX
Optics Selection	--

SAMComplete - Ethernet Service Activation Test: Local Advanced Settings

Loop Type	Broadcast
Source MAC	Factory Default
Default Source MAC	00-80-16-94-86-B2

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

Auto Negotiation	On
Pause Capable	Both Rx and Tx
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Local Auto Negotiation Status	
Auto Negotiation	On
Pause Capable	Both Rx and Tx
Speed (Mbps)	1000
Duplex	Full
10Base-TX FDX	Yes
10Base-TX HDX	Yes
100Base-TX FDX	Yes
100Base-TX HDX	Yes
1000Base-TX FDX	Yes
1000Base-TX HDX	No
Fallback Duplex	Full

SAMComplete - Ethernet Service Activation Test: Network (Services)	
Number of Services	3
Layer	L1
Test Mode	Traffic

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)				
<i>Service</i>	<i>Frame Size</i>	<i>User Size</i>	<i>Dest. MAC Address</i>	<i>EtherType</i>
Voice	User Defined	128	00-80-16-DA-F1-DC	0x0800
Dati	User Defined	1374	00-80-16-DA-F1-DC	0x0800
HDTV	User Defined	1374	00-80-16-DA-F1-DC	0x0800

SAMComplete - Ethernet Service Activation Test: Network (Tagging)					
<i>Service</i>	<i>Encapsulation</i>	<i>VLAN ID</i>	<i>User Pri.</i>	<i>SVLAN ID</i>	<i>SVLAN Pri.</i>
Voice	None	---	---	---	---
Dati	None	---	---	---	---

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

HDTV	None	---	---	---	---
------	------	-----	-----	-----	-----

SAMComplete - Ethernet Service Activation Test: Network Settings (Advanced)

<i>Service</i>	<i>DEI Bit</i>	<i>TPID</i>
Voice	---	---
Dati	---	---
HDTV	---	---

SAMComplete - Ethernet Service Activation Test: SLA Throughput

<i>Service</i>	<i>CIR</i>	<i>EIR</i>	<i>Policing</i>	<i>Max Load</i>
Voice	0.12	2.00	ON	2.62
Dati	19.00	25.00	ON	50.25
HDTV	112.00	150.00	ON	299.50

SAMComplete - Ethernet Service Activation Test: SLA Policing

<i>Service</i>	<i>CIR+EIR</i>	<i>M</i>	<i>Max Policing</i>
Voice	2.12	0	4.12
Dati	44.00	0	110.00
HDTV	262.00	0	572.00

SAMComplete - Ethernet Service Activation Test: SLA Burst

Perform Burst Testing	No
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SAMComplete - Ethernet Service Activation Test: SLA Performance

<i>Service</i>	<i>Frame Loss Ratio</i>	<i>Frame Delay (RTD, ms)</i>	<i>Delay Variation (ms)</i>
Voice	0.000000000	2.000	0.500
Dati	0.000000000	2.000	0.500
HDTV	0.000000000	2.000	0.500

SAMComplete - Ethernet Service Activation Test: SLA Performance

Include Frame Delay as an SLA requirement	ON
Include Frame Delay Variation as an SLA requirement	ON

SAMComplete - Ethernet Service Activation Test Report - Port 1: 10/100/1000 Eth Layer 2 Streams Term

SAMComplete - Ethernet Service Activation Test: Test Controls (Test Ctls)	
Number of Steps Below CIR	3
Step Duration (sec)	15
Step 1 % CIR	90
Step 2 % CIR	95
Step 3 % CIR	98
Performance Test Duration	1 Minute