DZS GLOBAL SERVICES AND SUPPORT (GSS)

HealthCheck Report for I3

OLT: 172.16.114.24

PREPARED FOR: **CUSTOMER**

Position

Company

Address

Contact Details

PREPARED BY: **DZS Employee**

Position

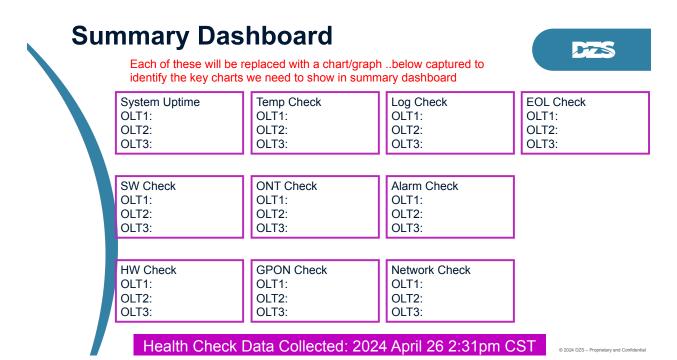Global Services & Support

Company

Address

Contact Details

DATE: Date

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- Need to provide an overall summary of this doc and purpose and what was done

- Provide executive summary of the health check..similar to below slide, but in graphs (pie-chart or something).

Summary Dashboard

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Each of these will be replaced with a chart/graph ..below captured to identify the key charts we need to show in summary dashboard

System Uptime OLT1: OLT2: OLT3:	Temp Check OLT1: OLT2: OLT3:	Log Check OLT1: OLT2: OLT3:	EOL Check OLT1: OLT2: OLT3:
SW Check OLT1: OLT2: OLT3:	ONT Check OLT1: OLT2: OLT3:	Alarm Check OLT1: OLT2: OLT3:	
HW Check OLT1: OLT2: OLT3:	GPON Check OLT1: OLT2: OLT3:	Network Check OLT1: OLT2: OLT3:	

Health Check Data Collected: 2024 April 26 2:31pm CST

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- Overview of the OLT chassis etc

OLT Info Report

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OLT1: 172.16.114.24	
Info Type	**Data**
Chassis Type	MXK 1421
SW Ver	3.4.2.144.007.2
ROM Ver	3.4.2.144.007
#Active Cards	2 X MC 2 X FC-AEHG2-AETG4 10 X LC-GP16-5
#Offline Cards	0
PON Ports Active	
PON Ports Offline	
#ONTs	1871 Active 19 Offline
SFP Types	Lingent X 78 Hisense X 52
System Uptime	149D 12H 17M

OLT1: 172.16.114.32		
Check Type	**Status**	**Comments**
Chassis Type		
SW Ver		
ROM Ver		
#Active Cards		
#Offline Cards		
PON Ports Active		
PO Ports Offline		
#ONTs Active		
SFP Types		
System Uptime		

OLT1: 172.16.114.103		
Check Type	**Status**	**Comments**
Chassis Type		
SW Ver		
ROM Ver		
#Active Cards		
#Offline Cards		
PON Ports Active		
PO Ports Offline		
#ONTs Active		
SFP Types		
System Uptime		

3.0 SYSTEM SUMMARY

- OLT info details, system info, security info, customer settings, port access list etc
  - Using xcard linkagg
  - SNMP community name set so SNMP is being used. Check for excessive SNMP walks.
  -
- Minor/major warnings etc.:
  - 'alarm show' output shows that the 'AlarmTotalCount' is more than 170k. Viewing the 'log cache' output for frequently recurring alarms resulted in the following comments:
      > Most of the alarms posted in the log cache are related to several ONU's that are toggling continuously between being discovered, then 'no longer present', rediscovered, 'no longer present', etc. This is resulting in the 'GPON Olt Onu Error alarm' being continuously set and cleared. The reason for this may be related to the 'rx power out of range' or 'rx power out of range, rx power too low.' alarms that are posted in the 'alarm show' output for these ONU's. It is recommended that the reason for 'rx power out of range' should be investigated for the following ONU's:
      > - 1/3/9/7/gpononu
      > - 1/4/15/18/gpononu
      > - 1/10/11/5/ gpononu

  - Several ONU ports are reporting either 'rx power out of range' or 'rx power out of range, rx power too low.' and should be investigated (see output of 'onu status' command). The ONU's with rx power issues are:
      > 1-1-6-19/gpononu
      > 1-2-1-4/gpononu
      > 1-2-6-18/gpononu
      > 1-2-8-4/gpononu
      > 1-2-12-10/gpononu
      > 1-4-3-1/gpononu
      > 1-7-8-11/gpononu
      > 1-7-15-2/gpononu
      > 1-8-5-12/gpononu
      > 1-10-11-14/gpononu
- 'bip threshold exceeded' is being reported for 1-2-12-10/gpononu. The fiber should be checked for physical issues.
- Fans/Power/Battery info
  - Fans OK - All fans only running at 65%
  - Temp Sensor 15 has an asterisk meaning it is higher than the threshold
  -

HW Report

OLT1: 172.16.114.24

Check Type	Status	Comments
Chassis Status		
Card Status		
SFP Status		
Port Status		
LED Check		
Fan Check		
PWR Check		
Battery Check	🟩	Battery A -53.85V Battery B -53.79V Battery A ret-0.5V Battery B ret -0.7V
Uptime Check	🟧	Chassis: 149D Card 11: 59D

OLT1: 172.16.114.32

Check Type	Status	Comments
Chassis Status		
Card Status		
SFP Status		
Port Status		
LED Check		
Fan Check		
PWR Check		
Battery Check		
Uptime Check		

OLT1: 172.16.114.103

Check Type	Status	Comments
Chassis Status		
Card Status		
SFP Status		
Port Status		
LED Check		
Fan Check		
PWR Check		
Battery Check		
Uptime Check		

4.0 CARD SUMMARY

- list of the cards, SFPs, what is bad, version data etc

- Any EOL situations?

Temp Report

OLT1: 172.16.114.24

Check Type	Status	Comments
Chassis Temp Check	🟩	
Card Temp Check	🟩	
SFP Temp Check	🟩	Max 50ºC [1-2-6-0, 1-4-6-0 and 1-4-7-0]
Max Temp	🟩	50ºC [Slot 4 & 5]
LED Check		
Upper Fan Check	🟩	Speed: Normal Power: Normal
Lower Fan Check	🟩	Speed: Normal Power: Normal

OLT1: 172.16.114.32

Check Type	Status	Comments
Chassis Temp Check		
Card Temp Check		
SFP Temp Check		
Max Temp		
LED Check		
Upper Fan Check		
Lower Fan Check		

OLT1: 172.16.114.103

Check Type	Status	Comments
Chassis Temp Check		
Card Temp Check		
SFP Temp Check		
Max Temp		
LED Check		
Upper Fan Check		
Lower Fan Check		

5.0 PORT SUMMARY

- Provide ethernet/port level info, what is bad, what are the issues etc

- SPF related info if it makes sense here

- Non-DZS SPF items, issues etc

- Any EOL situations?

- Look at logs and alarms and provide analysis on issues identified, active alarms etc

Log & Alarm Report

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OLT1: 172.16.114.24		
Check Type	**Status**	**Comments**
Critical Logs Check		
Alarm Check		
Issues Open		
Fatal Codes		

OLT1: 172.16.114.32		
Check Type	**Status**	**Comments**
Critical Logs Check		
Alarm Check		
Issues Open		
Fatal Codes		

OLT1: 172.16.114.103		
Check Type	**Status**	**Comments**
Critical Logs Check		
Alarm Check		
Issues Open		
Fatal Codes		

7.0 STATS AND KPI ANALYSIS

- Look at the error counters/stats etc and identify issues
- Look at error counters on all active ONTs etc
- Make an educated analysis based on what we see

8.0 ONT ANALYSIS

- Look at ONT SW versions…do they need to be upgraded?
- Look into any ONT that requires uprgrades or re-provisioning etc

9.0 FINAL ANALYSIS AND NEXT STEPS

- Summary final thoughts and next steps