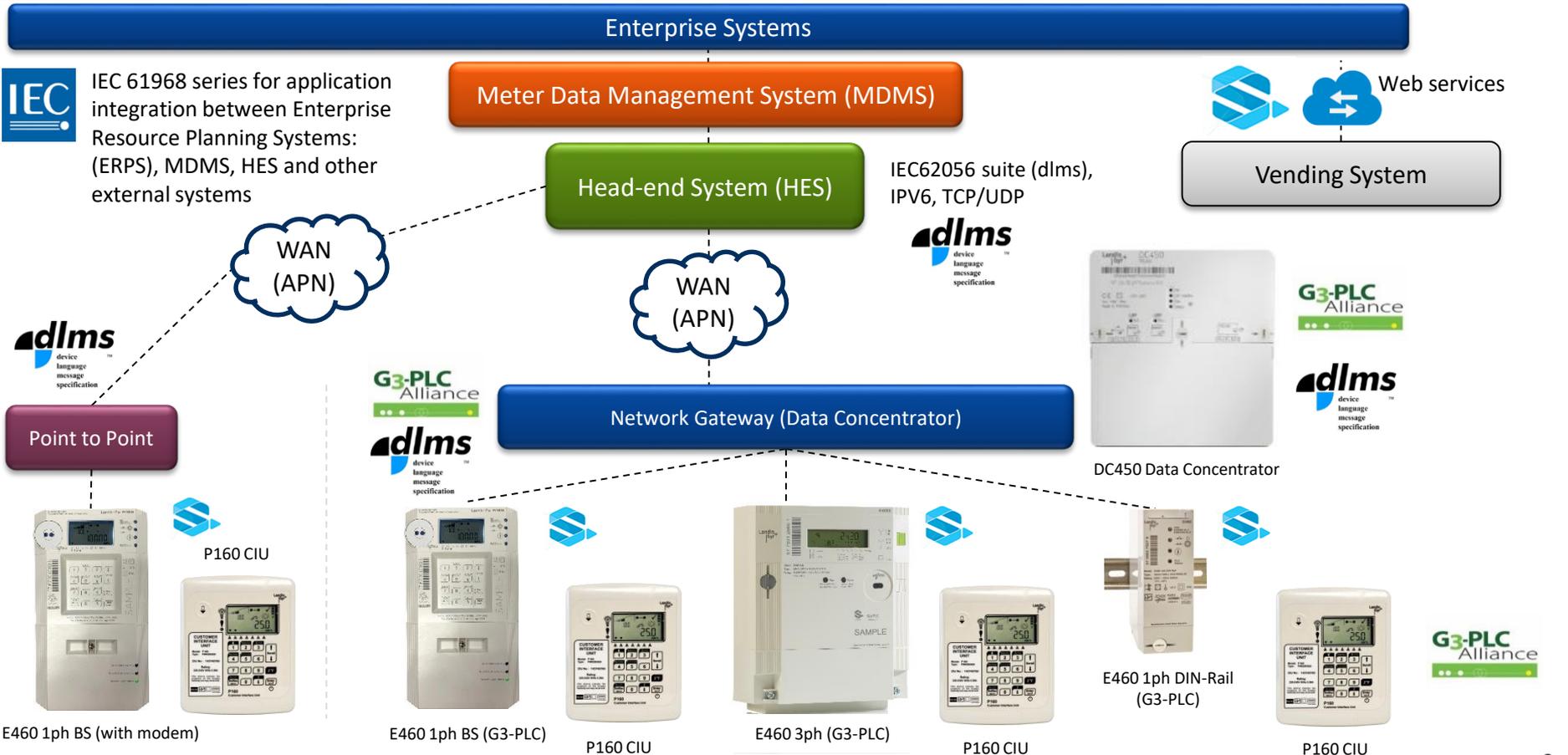


Landis+Gyr G3-PLC Implementation

G3-PLC
Alliance *Enabling the smartest grid... Together.*

Landis+Gyr Solution Overview



IEC IEC 61968 series for application integration between Enterprise Resource Planning Systems: (ERPS), MDMS, HES and other external systems

dlms device language message specification
Point to Point



E460 1ph BS (with modem)

G3-PLC Alliance
dlms device language message specification



E460 1ph BS (G3-PLC)



P160 CIU



E460 3ph (G3-PLC)



P160 CIU



DC450 Data Concentrator



E460 1ph DIN-Rail (G3-PLC)



P160 CIU

G3-PLC Alliance

DC450, G3-PLC Data Concentrator – Web Interface



G3-PLC
Alliance



Overview

The DC450 is a G3-PLC certified Data Concentrator, it offers a powerful Web interface & remote visibility of the G3-PLC device



Main Functions

- G3-PLC Device configuration
- Evaluation of dlms communication statistics per device
- Send PING commands to individual or group of meters
- Monitor G3-PLC communication in real time
- Graphical view of the G3-PLC PAN topology
- Powerful Utility Engineer's tool to analyse communications

DC450
41900026
1.5.0 beta 4

MAIN
+ CONFIGURATION
- DIAGNOSTICS
DC logs
DC profiles
Uplink
PLC
Unit data
+ SOFTWARE UPDATE
+ MAINTENANCE
LOGOUT

Unit list
Select unit

Landis+Gyr
manage energy better

General information

Serial number	41900026
Software version	1.5.0 beta 4
Hardware version	4
Time	2013.07.23 11:38:39
Uptime	012d 16h 19m 59s
Location	
System memory usage	24%
Data memory usage	63%
Internal temperature	49 °C
PLC device count	2403

Current alarms
No active alarms

Units with poor PLC communication quality:

124551857	59%
-----------	-----

Threshold is: 60%

Inaccessible units:
None

DC Web Interface – G3-PLC PAN Topology

DC450v2

45005821

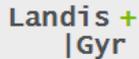
1.13.0

PM Demo Stand #1

- MAIN
- + CONFIGURATION
- DIAGNOSTICS
- DC logs
- DC profiles
- Uplink
- PLC
- Unit data
- + SOFTWARE UPDATE
- + MAINTENANCE
- LOGOUT

Unit list

Select unit ▼



PLC statistics

- STATUS
- STATISTICS
- UNITS SUMMARY
- UNITS G3 SUMMARY
- G3 EVENT HISTORY
- G3 PATHS
- ROUTE TABLE
- NEIGHBOR TABLE
- ACTIVE G3 NODES
- DEVICE TABLE
- G3 ADP BLACKLIST
- G3 MAC IB
- G3 ADP IB
- G3 PAN TOPOLOGY

- Animation
- Hide minor links
- Keep Scanning (Causes traffic)
- Show guides

Node color: Communication quality ▼

Node shape: Unit type ▼

Link color: Black ▼

Link width: Average cost ▼

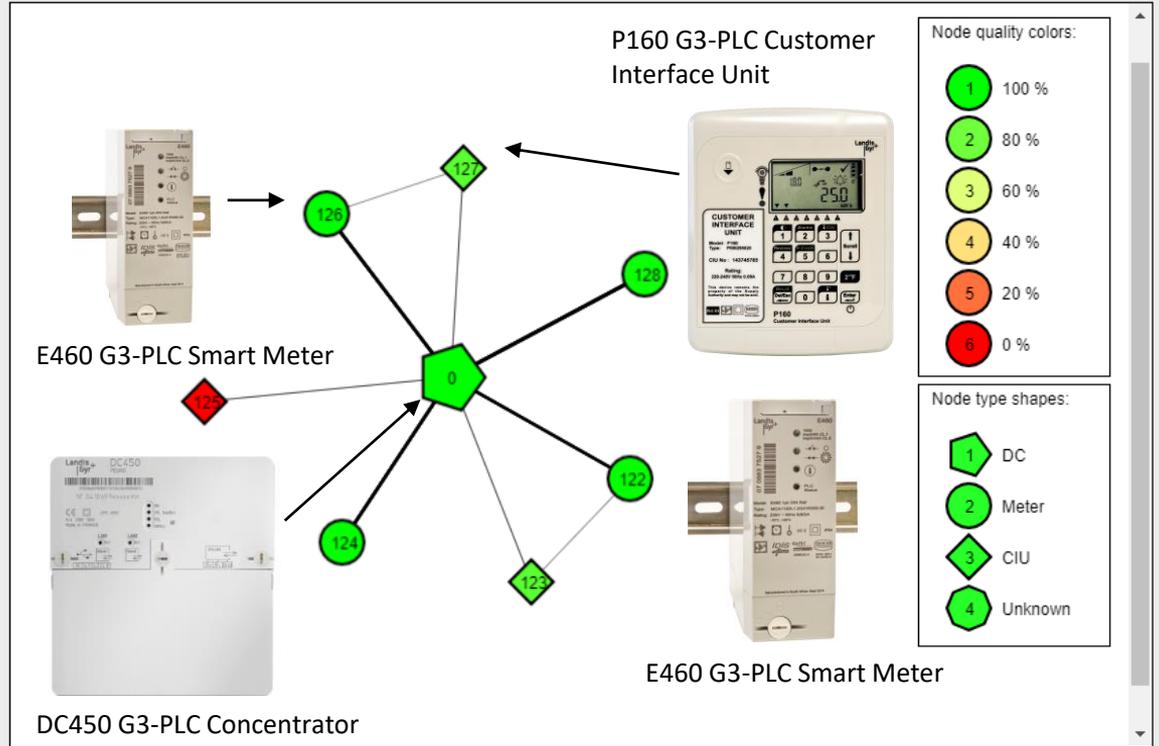
View image

Status:

Scanning completed

Units:

Unit Id	Short addr
4C475A3204948896 (LGZ-050-0-76843158)	125
4C475A3204948897 (LGZ-050-0-76843159)	123
4C475A3205163C38 (LGZ-050-0-85343288)	127
4C475A660393E7A8 (LGZ-102-0-60024744)	122



DC Web Interface – G3-PLC PAN Topology

DC450v2

46000397
1.9.1
63

- MAIN
- + CONFIGURATION
- DIAGNOSTICS
- DC logs
- DC profiles
- Uplink
- PLC
- Unit data
- + SOFTWARE UPDATE
- + MAINTENANCE
- LOGOUT

Unit list

Select unit



PLC statistics

- STATUS
- STATISTICS
- UNITS SUMMARY
- UNITS G3 SUMMARY
- G3 EVENT HISTORY
- G3 PATHS
- ROUTE TABLE
- NEIGHBOR TABLE
- ACTIVE G3 NODES
- DEVICE TABLE
- G3 MAC IB
- G3 ADP IB
- G3 PAN TOPOLOGY

- Animation
- Hide minor links
- Keep Scanning (Causes traffic)
- Show color guide

Node color: Communication quality

Link color: Black

Link width: Average cost

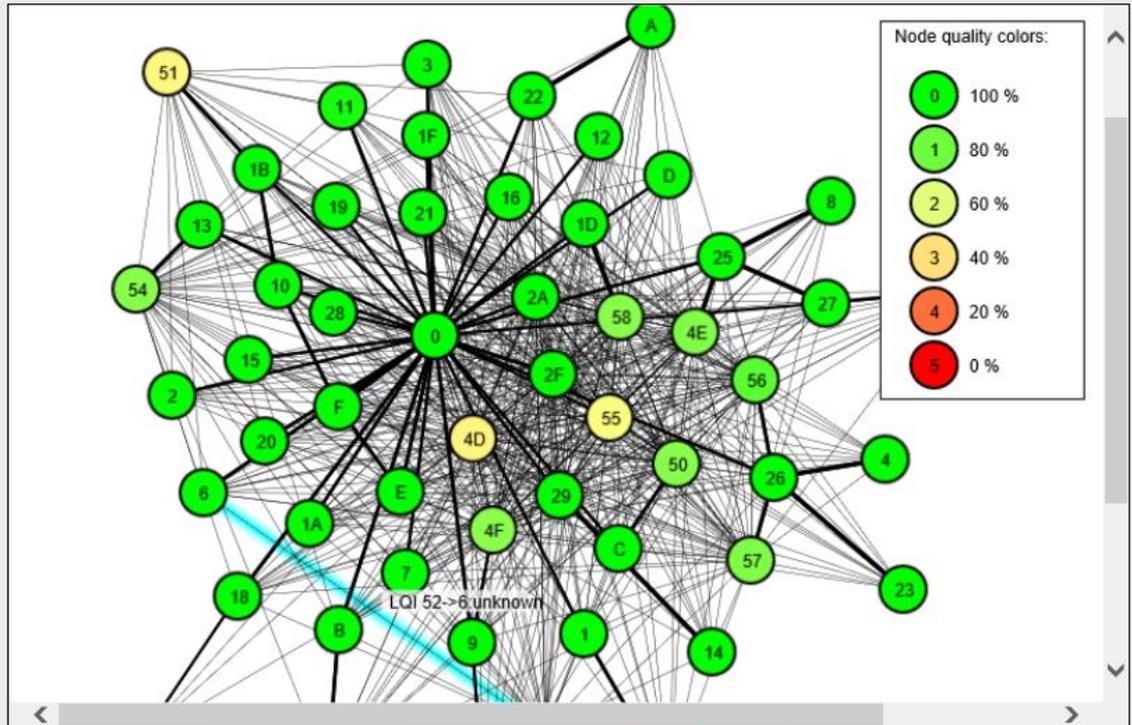
View image

Status:

Asking neighbors list from
4C475A6733939501

Units:

Unit Id	Short addr
4C475A3204938A68 (LGZ-050-0-76778088)	4E
4C475A3204938BE0 (LGZ-050-0-76778464)	4F
4C475A320493A802 (LGZ-050-0-76785666)	51
4C475A320493A905	



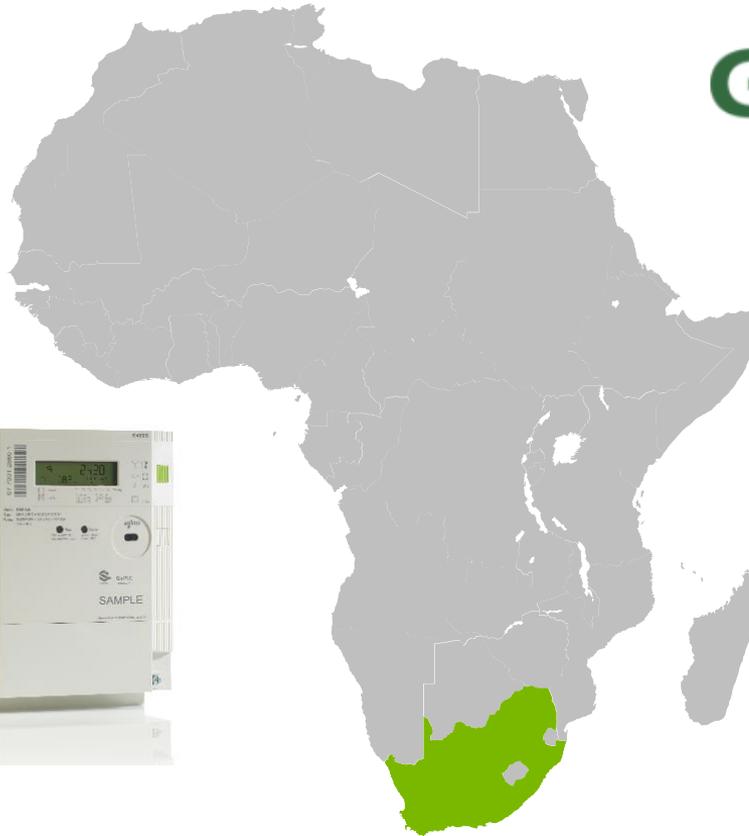
Landis+Gyr G3-PLC Implementation

Highlight

G3-PLC offers the latest generation robust PLC communications

The G3-PLC meter acts as a repeater

G3-PLC is an open international standard and offers a FUTURE PROOF solution and peace of mind for the utility



G3-PLC Alliance

G3-PLC Benefits

Open standard PLC communications for a future proof solution and for utility peace of mind

Using Data Concentrator with Web interface

-- Remotely view and analyse the G3-PLC network and communications quality of each device

-- Visibility of the meter and CIU pairing

-- Utility Engineers can PING devices from DC to check their status on the network



G3-PLC Smart Meter Portfolio Overview



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Thank you for your attention



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