Saudi clinic synchronized clocks

Integrated system proposal for three clinic buildings

Provide one local network time system per clinic, with analog and LED clocks in Clinics 1 and 2 and analog clocks only in Clinic 3. The proposed equipment uses SYNC CLOCKS catalogue models and preserves the RFQ quantities.

Equipment	Clinic 1	Clinic 2	Clinic 3	Total
Floors	5	5	8	18
Time servers	1	1	1	3
Analog clocks	43	40	218	301
LED clocks	7	10	0	17
Clock units	50	50	218	318
Double-sided brackets	-	-	96	96
GPS antenna kits in RFQ	-	-	1	1

Confirm antenna kit inclusion for Clinics 1 and 2 with the selected GPS-referenced server configuration. Clinic 3 includes a 20 m antenna cable requirement.

Proposed product family



HCE5436A-IV + Opt N



S16W-E analog clock



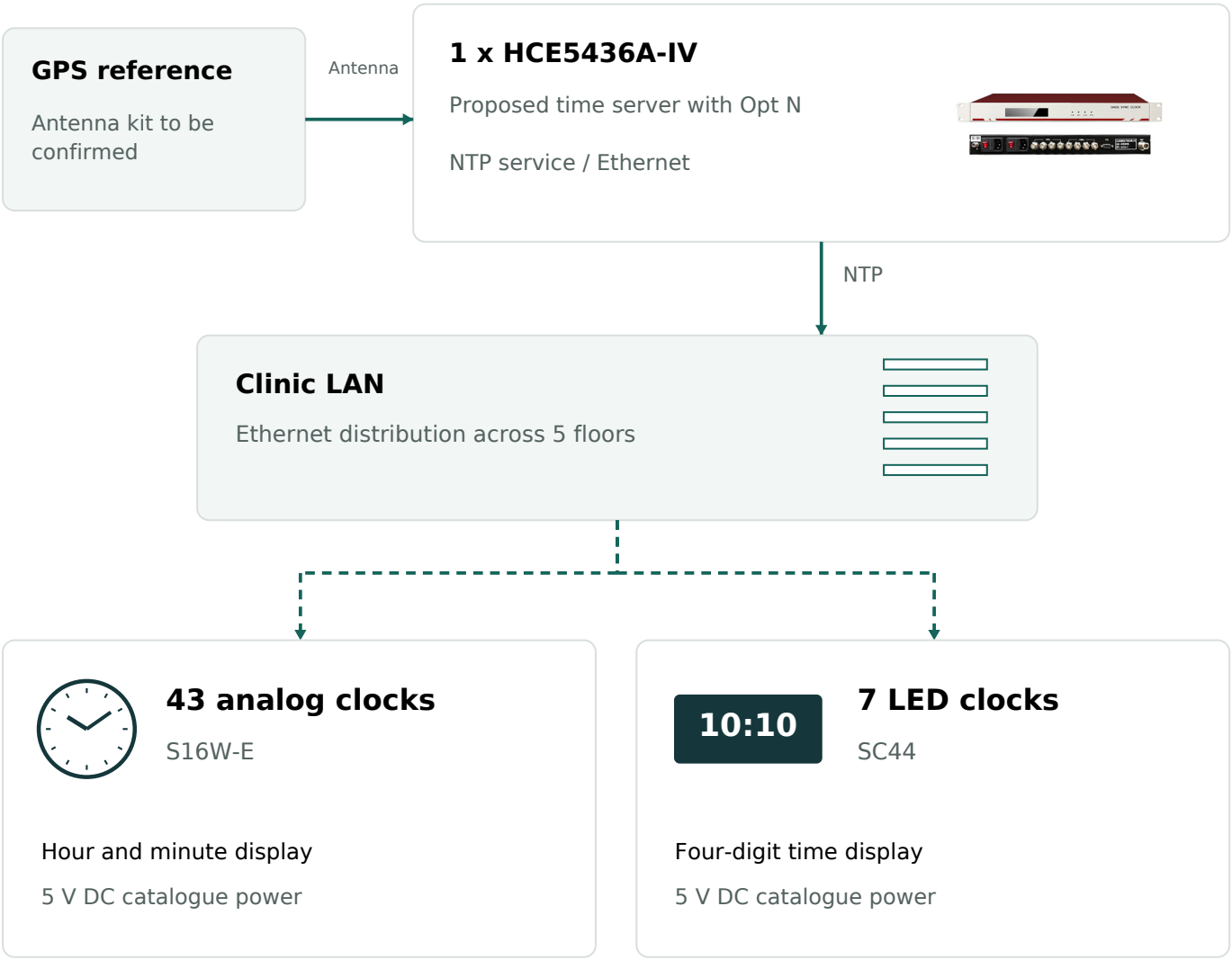
SC44 LED clock

Confirm final clock interfaces and ordering variants before ordering.

Clinic 1 synchronized clock system

5 floors | Analog and LED clocks on one clinic network

Time server	Analog clocks	LED clocks	Total clock units
1	43	7	50



Dashed connections require confirmed NTP client variants.

Installation requirements

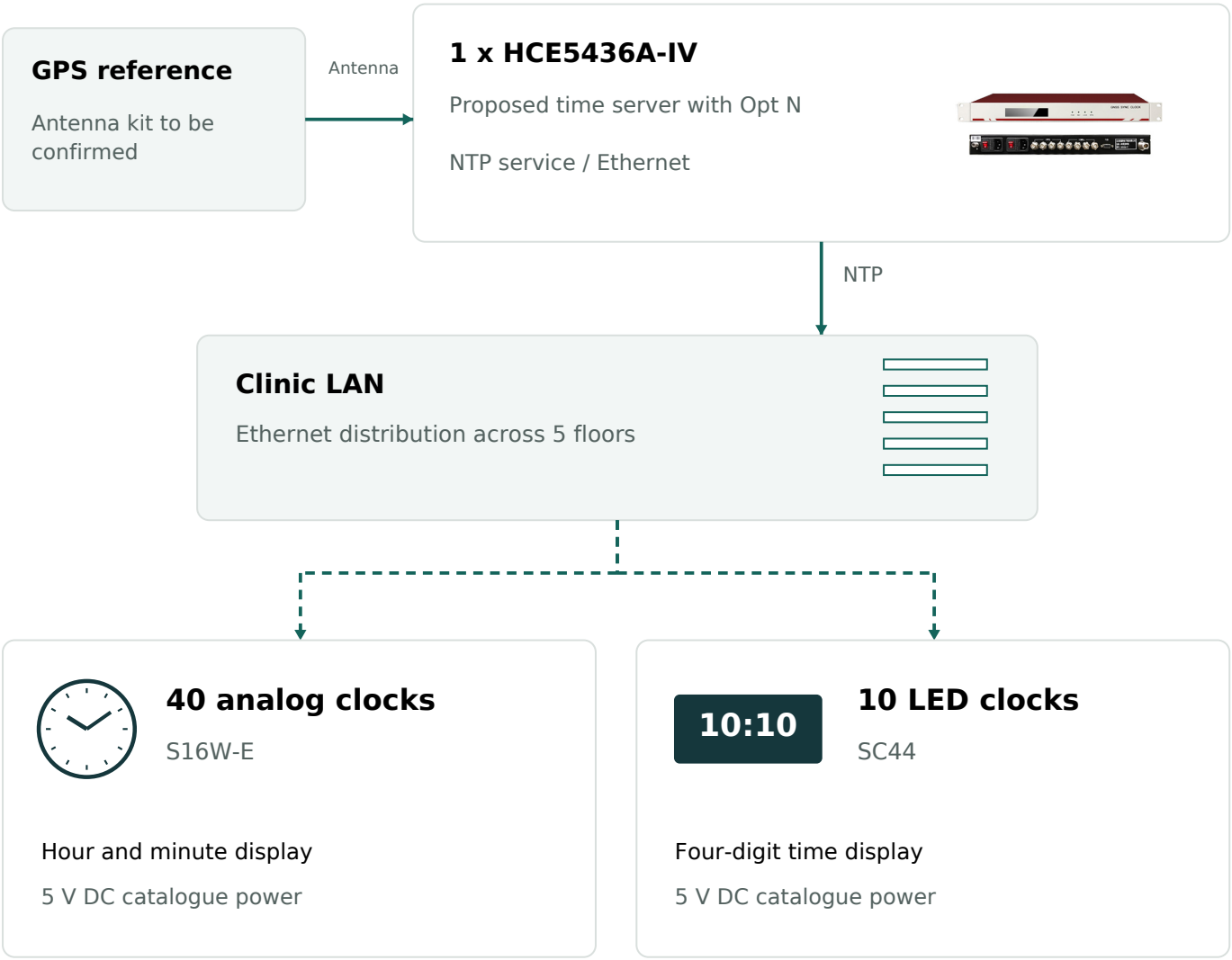
Assign clock locations and quantities by floor during the site survey. Provide separate approved DC supplies for the clocks; the time server does not supply clock power. PoE is not included.

Confirm the GPS antenna scope, clock NTP interfaces, display functions and final mounting details before ordering. See equipment requirements on page 5.

Clinic 2 synchronized clock system

5 floors | Analog and LED clocks on one clinic network

Time server	Analog clocks	LED clocks	Total clock units
1	40	10	50



Dashed connections require confirmed NTP client variants.

Installation requirements

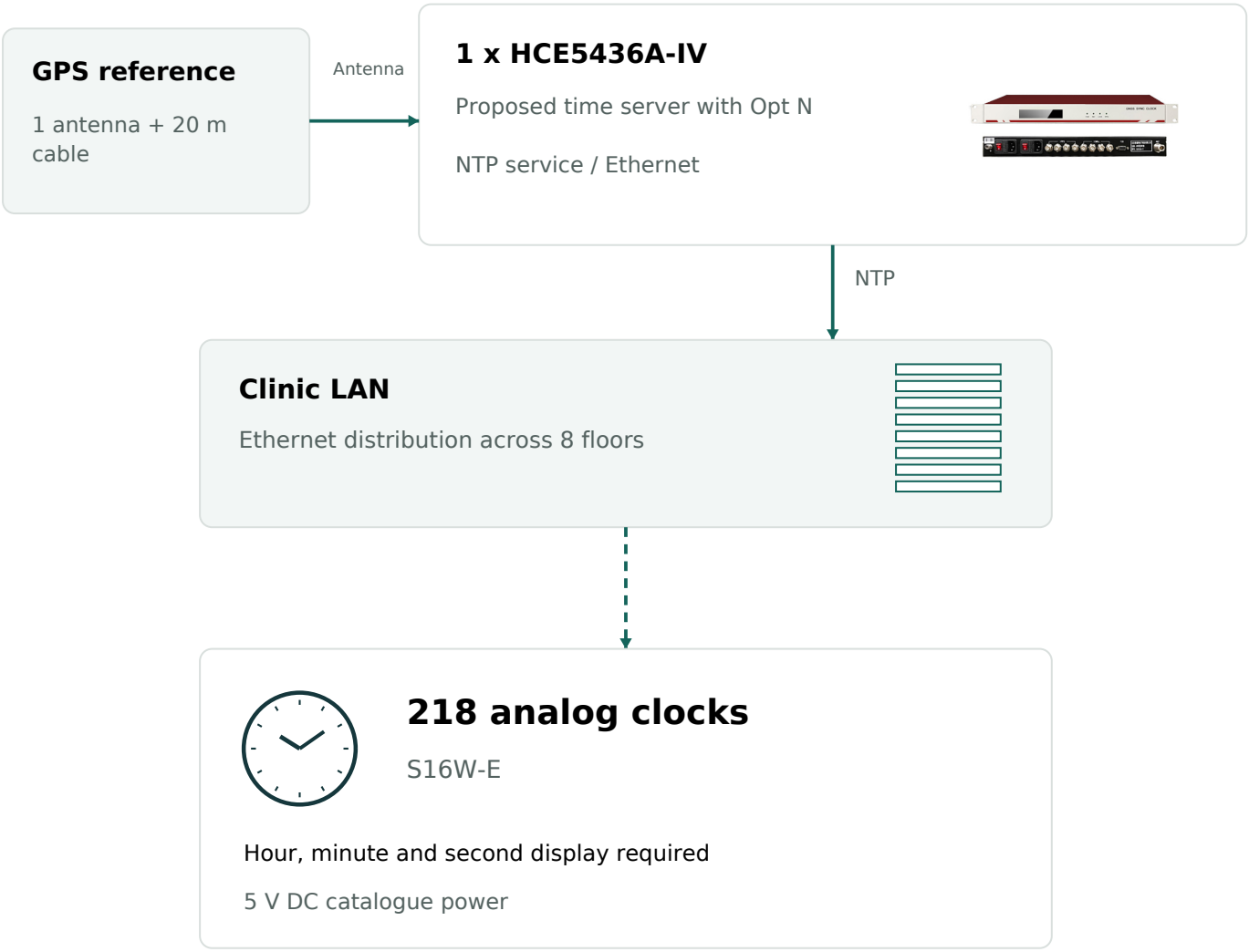
Assign clock locations and quantities by floor during the site survey. Provide separate approved DC supplies for the clocks; the time server does not supply clock power. PoE is not included.

Confirm the GPS antenna scope, clock NTP interfaces, display functions and final mounting details before ordering. See equipment requirements on page 5.

Clinic 3 synchronized clock system

8 floors | Analog clocks only

Time server	Analog clocks	GPS antenna kit	Double-sided brackets
1	218	1 with 20 m cable	96



Dashed connections require confirmed NTP client variants.

Mounting and quantity confirmation

Retain 218 analog clock units and 96 double-sided brackets. Confirm whether each quoted clock unit is one clock face or a complete assembly, then approve the bracket arrangement and floor allocation.

Approve the S16W-E second-hand configuration, NTP interface, bracket load rating and GPS antenna cable before ordering. Clocks require separate approved DC supplies.

Equipment specifications

Proposed models and interface requirements

HCE5436A-IV with Opt N

Three units, one per clinic. GPS-referenced rack time server with OCXO; 19-inch 1U enclosure, 447 x 44.5 x 300 mm. The model specification lists dual 220 V AC inputs (+/-20%, 47-63 Hz) and consumption below 20 W. Opt N provides NTP and RJ45 monitoring.

Confirm: exact Opt N ordering configuration, client capacity, local mains compatibility, antenna kit and approved cable length. The Clinic 3 RFQ specifies a 20 m antenna cable; the model page lists a 30 m standard cable.

S16W-E analog clock

301 units: Clinic 1, 43; Clinic 2, 40; Clinic 3, 218. Catalogue specification: 400 mm diameter, aluminum-alloy housing, 5 V DC and consumption below 5 W.

Confirm: NTP client support in the ordered variant, Arabic-numeral dial artwork, hand movement and mounting. Clinics 1 and 2 require hour and minute indication; Clinic 3 requires hour, minute and second indication.

SC44 LED clock

17 units: Clinic 1, 7; Clinic 2, 10. Catalogue specification: single-sided four-digit display, nominal 4-inch digits, 485 x 212 x 50 mm, 5 V DC and consumption below 5 W.

Confirm: NTP client support, red display, exact digit height, wall mounting and 60 m readability requirement. Approve date, week number and temperature display functions and the display sequence if required.

Network and power compatibility

The proposed network architecture replaces the RFQ impulse and AFNOR distribution. NTP support for the S16W-E and SC44 ordering variants must be confirmed before network connection. If unavailable, select a verified network-compatible variant and revise the equipment schedule.

Do not connect 5 V DC clock variants directly to 24 V impulse wiring, mains or PoE. The original master clock functions for impulse, AFNOR, DHF and three programming relays are not included without separate confirmation.

Installation and commissioning

Installation requirements and acceptance plan

1 Confirm equipment and interfaces

Approve the final server options, clock protocols, supply ratings, required display functions and mounting kits. Verify a sample clock of each ordered variant with the selected time server before releasing the full supply.

2 Complete the site design

Record room and corridor locations, viewing distances, installation heights, cable routes and service access for all 18 floors. Confirm Clinic 3 clock-face counting and bracket loading. Finalize the GPS antenna positions and cable-loss calculations.

3 Design network and backup power

Size switches, DC supplies, protection and UPS capacity using approved loads and cable lengths. Restrict NTP access to the clinic network and approved clients. Network equipment, DC supplies, UPS and additional antenna kits require a final equipment schedule.

4 Test and hand over

Set all displayed time to Asia/Riyadh, UTC+3, with no daylight-saving adjustment. Agree the acceptable time error and recovery time before testing. Verify each clock, loss of GPS reference, network interruption, restart and power restoration; record results and provide as-built drawings.

Project and product references

Project quantities: RFQ 04-11-2026.xlsx, sheet RFQ, rows 2-14. The equipment totals are building totals; floor-by-floor allocation is to be finalized.

SYNC CLOCKS English Catalogue

S16W-E: page 6. SC44: page 2.

SYNC CLOCKS Clock Server Catalogue

HCE5436A-IV and Opt N: page 4.

HCE5436A-IV product specification

Dimensions, power, options and GPS antenna.

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