

South Korea / Facility / Published revision 1

kt cloud Yongsan Data Center

400 MW • Grid connection

Yongsan receiving-power expansion potential upper limit

Also known as: KT DC • KT IDC • KT DX IDC Yongsan

Development status: operational

Operational hyperscale colocation facility in Seoul, opened by KT in November 2020 and currently marketed by kt cloud. UPS capacity and receiving-power expansion potential are separate disclosures; current IT load remains unknown. Historical expansion is retained within this facility.

Last researched: 2026-10-07 | Last verified: Not independently verified

Tracked dataset only. Unknown values are not zero. Evidence dates and measurement definitions must be considered when comparing sites.

Site photographs



Photo: Yongsan IDC entrance shown in Electronic Times' 2020-11-11 report; capture date undisclosed. [10]

Attribution: www.etnews.com. Published: Unknown; captured: Unknown; retrieved: 2026-10-07.

Rights: Electronic Times article identifies the facility entrance. Individual photographer attribution and reusable license were not established; permission required before import. Publication and capture dates were not independently established. Research-selected property image; reviewer must confirm site identity, suitability and rights before publication.

Site profile

Field	Published information
Operator	kt cloud [1] [3] [6]
Owner	Unknown
Business model	colocation [7] [8]
Scale	hyperscale [1]
Country	South Korea [2] [3]
State / region	Seoul [3] [4]
Metro area	Seoul [2]
City / locality	Seoul [1] [3] [4]
Address	33 Wonhyo-ro 41-gil, Yongsan-gu, Seoul 04363, South Korea [3] [4]
Coordinates	37.535381, 126.958805 · approximate precision. PeeringDB facility geocode associated with the corroborated street address; Google Maps and property-marker alignment could not be inspected. Not surveyed or block-verified.
Parent	Not assigned

Capacity evidence

Do not add these claims together. IT load, facility power, grid connection and unspecified power are different measurements. Cumulative and incremental scopes remain separate.

Measurement	Development scope	Evidence / accounting
≈40.8 MW Unspecified power	Yongsan facility aggregate UPS nameplate capacity, N+1 configuration operational · cumulative	[1] reported · 2026-10-07 Excluded from totals. As_of is retrieval date of an undated operator page. Converted from approximately 40,800 kW. Redundant UPS capacity does not establish usable IT load or total facility demand.
400 MW Grid connection	Yongsan receiving-power expansion potential upper limit planned · cumulative	[1] reported · 2026-10-07 Excluded from totals. As_of is retrieval date of an undated page. Source says expansion is possible up to 400 MW; this is an upper-limit potential, not a committed project, current connection or IT load.

Development timeline

2020-11-04 · actual_opening · KT DX IDC Yongsan opened

Opening date stated in the KT-supplied announcement caption; some contemporary reporting describes operations beginning November 5. [2]

2023-Q2 · planned_expansion · Historical Yongsan expansion target

3Q22 investor presentation targeted completion through Q2 2023 and referred to 38.5 MW upon completion. Actual completion and power basis remain unresolved. [5]

2023-10-30 · announcement · Public dedicated cloud zone established

kt cloud announced a Yongsan public cloud zone operated with Cheonan CDC for resilience; this is a service zone within the facility. [6]

Disclosed specifications

Building configuration: 7 above-ground floors; 6 basement floors

Operator disclosure. [1]

Rack accommodation: Approximately 5,000 racks

Capacity disclosure; installed or occupied rack count unknown. [1]

Cooling: Water Free Cooling System; inverter equipment and EC fans

Operator claims approximately 20% cooling-power savings; measured operating performance unavailable. [1]

Historical expansion power disclosure: 38.5 MW upon expansion completion

3Q22 presentation; unspecified power basis and unclear cumulative/incremental meaning. No full publication date established, so excluded from dated capacity_claims. Do not add to UPS or grid figures. [5]

Opening-era gross floor area: 48,000 m²

2020 announcement; post-expansion area unknown. [2]

Opening-era server capacity: More than 100,000 servers

Accommodation potential rather than actual installed servers. [2]

Opening-era density zones: 4-15 kW

Announcement describes flexible low/high-density zones; current rack density distribution unknown. [2]

Connectivity: 100G-based terabit network; HCX cloud connectivity

Cloud connectivity does not prove named cloud providers are tenants. [1]

Server rooms: 8 rooms; approximately 6 m room height

Historical on-site report, not current post-expansion inventory. [9]

Power resilience: Dual Mapo/Yongsan substation feeds; backup generation up to 48 hours

2020 reporting; current configuration and fuel endurance not independently confirmed. [9]

PUE target: 1.4

2020 report describes a plan, not verified measured PUE. [8]

Public business contact: 080-258-0005; ysidc@kt.com

Operator-published Yongsan contact; no contact attempted. [1]

Research gaps

- Current legal property owner and ownership-transfer history
- Current installed or contracted IT load and actual facility/grid capacity
- Completion and capacity interpretation of the historical expansion
- Property footprint and independently corroborated marker position
- Current tenant identities, occupancy, measured PUE, renewable-energy share and site-specific certifications
- Land area and current post-expansion floor area

Sources and field evidence

Attribution does not establish independent verification or permission to reuse images. URLs refer to public evidence.

[1] kt cloud — Yongsan DC facility introduction

https://kt-idc.com/ktidc/viewktidc_introducePage

Published: Unknown · Retrieved: 2026-10-07

Names Yongsan as a Seoul hyperscale DC; lists approximately 40,800 kW aggregate UPS capacity in N+1 configuration, approximately 5,000 racks, seven above-ground and six underground floors, dual 154 kV supply and receiving-power expansion potential up to 400 MW.

[2] S. Korea's KT Corp.'s New Data Center to Lead Digital Transformation — KT release

<https://www.prnewswire.com/news-releases/s-koreas-kt-corps-new-data-center-to-lead-digital-transformation-301175851.html>

Published: 2020-11-18 · Retrieved: 2026-10-07

KT-supplied announcement identifies KT DX IDC Yongsan in Seoul, Korea, opened November 4; reports 48,000 square metres, capacity for over 100,000 servers, flexible 4–15 kW zones and HCX connectivity.

[3] kt cloud Yongsan — PeeringDB

<https://www.peeringdb.com/fac/12954>

Published: Unknown · Retrieved: 2026-10-07

Lists kt cloud organization, 33 Wonhyo-ro 41-gil, Wonhyoro 3-Ga, Yongsan-gu, Seoul 04363, country KR and geocode 37.535381, 126.958805. Record shows update timestamp 2025-11-30; this is not a publication or survey date.

[4] Ministry of Employment and Labor Notice No. 2022-567 — KOSHA-hosted disclosure

https://oshri.kosha.or.kr/cms/resFileDownload.do?fileName=%EA%B3%B5%EA%B3%A0_%EA%B3%B5%ED%91%9C%EB%AA%85%EB%8B%A8_20221228.pdf&siteId=kosha&type=etc

Published: Unknown · Retrieved: 2026-10-07

PDF pages 20 and 36 associate the named 2018 KT Yongsan IDC new-build construction project with 33 Wonhyo-ro 41-gil, Yongsan-gu, Seoul, Wonhyoro 3-ga. Used for address corroboration only.

[5] KT 3Q22 NDR presentation

https://corp.kt.com/attach/irdata/10601/KT%203Q22_NDR%20PT_KOR_FIN.PDF

Published: Unknown · Retrieved: 2026-10-07

Page 13 targets Yongsan IDC expansion through Q2 2023 and states 38.5 MW secured upon completion; power basis and incremental versus total interpretation are not specified.

[6] kt cloud establishes public dedicated cloud zone at Yongsan IDC

<https://www.ktcloud.com/media/press/20231030094445968?lan=kor&source=>

Published: 2023-10-30 · Retrieved: 2026-10-07

Operator announcement describes an established public cloud zone at Yongsan operated alongside Cheonan CDC for disaster recovery. Search-accessible text was available, but direct open returned no readable body.

[7] kt cloud — Colocation services

<https://www.kt-idc.com/colocation/viewcolocationPage>

Published: Unknown · Retrieved: 2026-10-07

Describes customer ICT equipment accommodation, power, cooling, security and backbone connectivity; service-level certification references are not treated as Yongsan-specific certifications.

[8] Metro Seoul — Visit to KT Yongsan IDC

<https://www.metroseoul.co.kr/article/20201111500377>

Published: 2020-11-11 · Retrieved: 2026-10-07

On-site report locates the facility at the former KT Wonhyo telephone office, describes leased space for unnamed global customers and a planned PUE of 1.4. Exterior photograph credited to reporter Kim Na-in.

[9] Electronic Times — KT Yongsan IDC redundancy report

<https://www.etnews.com/20201111000182>

Published: 2020-11-11 · Retrieved: 2026-10-07

Reports eight server rooms, six-metre room height, dual feeds from Mapo and Yongsan substations and backup generation designed for up to 48 hours. Shows facility entrance photograph.

[10] Property photo · www.etnews.com

<https://www.etnews.com/20201111000182>

Published: Unknown · Retrieved: 2026-10-07

Yongsan IDC entrance shown in Electronic Times' 2020-11-11 report; capture date undisclosed. Original image: https://img.etnews.com/photonews/2011/1354723_20201111182503_267_0003.jpg

Name: [1] [3]
Aliases: [1] [2] [6]
Kind: [1] [2]
Country: [2] [3]
Region: [3] [4]
City: [1] [3] [4]
Metro: [2]
Address: [3] [4]
Operator: [1] [3] [6]
Business Model: [7] [8]
Scale: [1]
Statuses: [1] [6]
Location: [3] [4]
Summary: [1] [2] [5] [6] [8]
Media: [10]
Stable identifier: 0b08b48d-8dfa-4637-89a2-97b03e674ab9