

What is 6SigmaGateway?

6SigmaGateway is a software service that runs continuously in the background, gathering live data and planned changes from DCIM and ITSM systems.

It bridges the gap between the digital twin and DCIM/ITSM software, enabling a seamless, two-way exchange of data between 6SigmaDCX and these tools. 6SigmaGateway has been developed to communicate with the leading DCIM and ITSM solutions.

This constant data exchange keeps the digital twin up-to-date at all times, ensuring you always get the most accurate simulation results.



What Asset Information can Gateway Monitor?

Below are some key data points that 6SigmaGateway can pull into a model for the highest level of accuracy. There may be additional data sets not listed that can be addressed via custom development.

Asset Type	<i>Manufacturer & Model</i>	<i>Location</i>	<i>Dimensions</i>	<i>Temperature In</i>	<i>Temperature Out</i>	<i>Power</i>	<i>Humidity</i>	<i>Weight</i>	<i>Equipment Type</i>
IT Equipment	✓	✓	✓	✓	✓	✓		✓	✓
Cabinet	✓	✓	✓	✓	✓	✓		✓	✓
Power Strip	✓	✓				✓			
ACU	✓	✓	✓	✓	✓			✓	✓
PDU, UPS & RPP	✓	✓	✓			✓		✓	✓
Sensors		✓		✓			✓		✓
Transfer Switch & Transformers	✓	✓	✓	✓	✓	✓		✓	✓

How Does 6SigmaGateway Work?

6SigmaGateway utilizes protocols such as SOAP (Simple Object Access Protocol) or ReST (Representational State Transfer) to communicate with your DCIM tool and retrieve its data. This process works as follows:

- 6SigmaGateway queries your DCIM files, checking for changes or new live feed data.
- DCIM data is synchronized with a digital twin in 6SigmaRoom.
- Using the updated digital twin, you can then run simulations to understand your facility's cooling and capacity management. You can find areas for improvement, model deployment plans and simulate the impact of changes on your live facility.
- 6SigmaRoom then synchronizes calculated data, such as cooling capacity and ASHRAE compliance, back to 6SigmaGateway. This data can then be pushed to your DCIM tool.

Features



Track Changes Over Time

Track data for easy simulation of current, peak or average conditions. Visualize min, max or average IT equipment loads over a specified period in your simulations.



Live Database Monitoring

Constant monitoring of data ensures that the digital twin can be updated with the latest changes and plans at the click of a button.



Import Key Asset Data

Aggregate asset, power and temperature information from a range of tools to sync with 6SigmaRoom quickly and accurately.



Two-Way Communication

Improve your planning decisions: push calculated cabinet cooling capacity data from 6SigmaRoom to other tools.



DCIM Integration

Speed up model creation: leverage your existing floor plans via native API integrations with leading DCIM providers.



Generic Data Connections

6SigmaGateway can utilize ODBC and CSV data, or communicate via SNMP and IPMI protocols, to gather data from any source.



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