



LonMark **Sessions 2007**

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Sessions



TRANE Project and Case Studies

Musée du quai Branly in France



37, quai Branly - portail Debilly 75007 Paris



Musée du quai Branly in France

2006: opening* of the Museum



The Musée du Quai Branly, dedicated to arts and civilisations from Africa, Asia, Oceania and the Americas, will open in 2006.

Designed by Jean Nouvel, the building will occupy a plot of land of 39 000 m², on which 300 000 objects will be exhibited. ▶▶



Overview

Museum in Paris:

- 25.100 m² total ground surface
- 4.750 m² of Permanent Exhibition rooms
- 2.000 m² of International exhibitions / galleries
- 6.095 m² of Reserves for Art pieces
- 1.200 m² of Suspended galleries
- 390 places + 100 places of theatres “Claude Lévi-Strauss”
- 1.350 m² of mediatheque
- 11.000 m² of warehouses
- 3 class-rooms for 55 students and 4 rooms for 26 students to study

Architect: Jean Nouvel

Consultant: CIEC

Contractor: CEGELEC



Customer needs

One single BMS, integrating HVAC and Electrical Controls Open Solution,

- We get in the building different zones with different occupancy
- We have different destinations of the zones: Museum, Theatre, Mediatheque,.....
- They buy electricity, cold and hot water from third parties, so the need to use as less as possible and to have the smallest possible connecting are important both for investments as operating costs.

So managing and controlling the different parameters and optimize, will have a positive influence on the costs but will also create optimal conditions for the visitors and staff.

Customer Needs

**One single BMS, integrating HVAC and Electrical Controls
Open Solution,**

Multiple HVAC vendors :

AHU's: Wesper

Fan Coils: Trane

VAV boxes: Trane

Lighting control: Wago

Power control: Wago

Building Management: Trane

Hot Water for heating coming from power plant: CPCU

Cold Water coming from power plant: Climespace



Solution

Full BMS system Tracer Summit

with 11 Building Control Units “BCU’s” connecting:

- 200 Fan Coils: Trane controllers
LonMark certified controllers ZN520 – ZN523
- 22 Air handling Units: Trane input/output controllers
Lontalk controllers MP 581
- 250 VAV Boxes: Connected to BMS
- Lighting control: Wago controllers
Lonworks Programmable Fieldbus controller 750-819
- Demand Limiting Control: Wago controllers
Lonworks Programmable Fieldbus controller 750-819

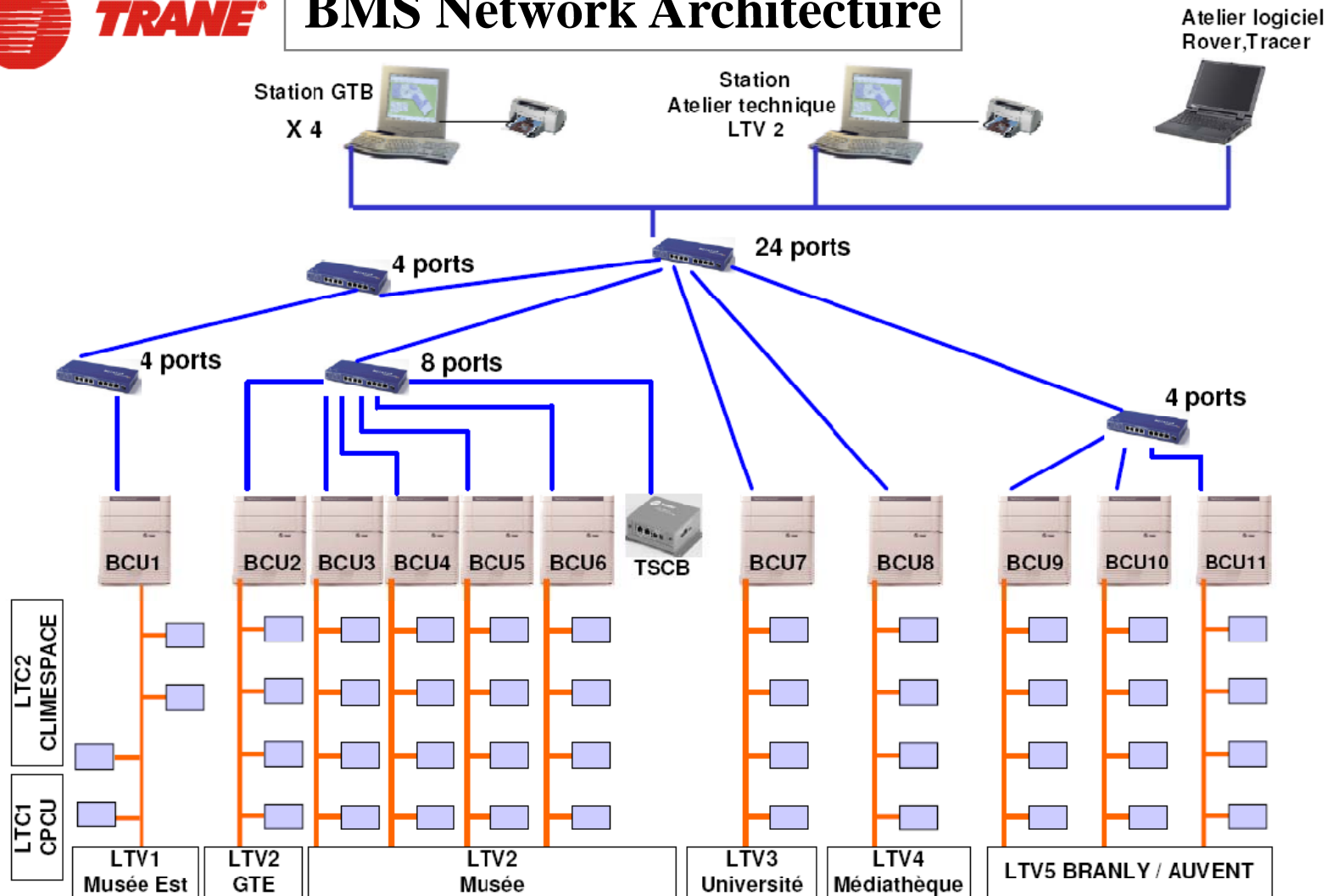


Solution



TRANE

BMS Network Architecture



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