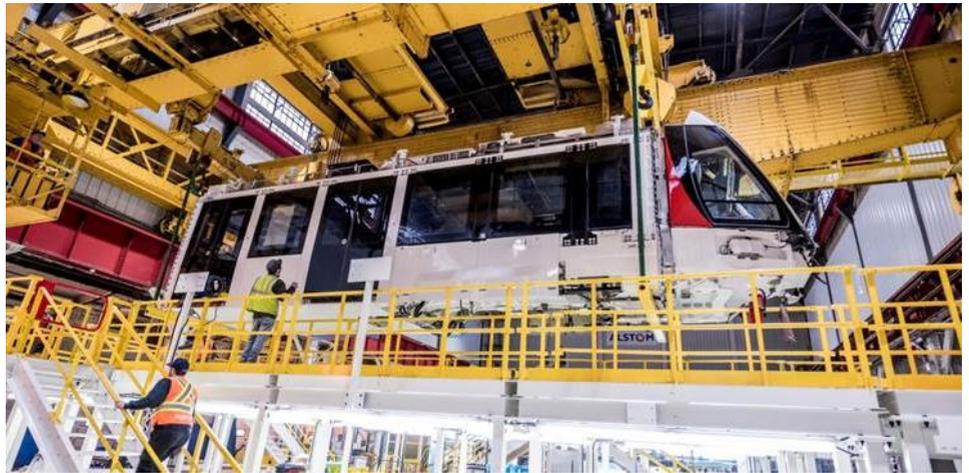


# Rideau Transit Group

## Citadis Spirit

In February 2013, Rideau Transit Group<sup>1</sup> selected Alstom to provide 34 high-capacity light rail vehicles and 30 years of maintenance services to the city of Ottawa’s light rail transit system, called the O-Train Confederation Line. The highly customizable Citadis Spirit will reflect Ottawa’s unique identity on its light rail rapid transit system.



### KEY BENEFITS

**Proven: over 2,300** Citadis vehicles sold to 55 cities. **9 billion passengers** transported - over **4 million/day**

**Accessibility: a 100% full low-floor** vehicle with wide central aisle and inter-communication for **superior passenger flow**, interior areas devoted to **persons with reduced mobility** and compliant to relevant **accessibility standards** .

**Meeting all transit needs: rider-friendly street-running service** in Ottawa’s city center, with the versatility to evolve into a light commuter solution to **connect passengers with suburbs** at speeds up to 100 km/h.

**Country**..... Canada

**Context**..... In 2003, the city of Ottawa, Ontario, was facing a projected 50% population growth to 1.2 million by 2021, forcing it to begin to look at feasible, long-term solutions to its current and anticipated transit challenges. In 2012, Ottawa city council unanimously approved a LRT line. In February 2013, Alstom finalised a contract to provide 34 light rail vehicles and 30 years of maintenance services to the Rideau Transit Group consortium worth over €1.5 billion (C\$2.1 billion). Alstom’s portion of the contract is worth approximately €400 million. In September 2016, Alstom signed a €125 million (C\$180 million) contract with Rideau Transit Maintenance General Partnership to maintain the city of Ottawa’s light rail transit system.

**Solution**..... The Citadis Spirit, Alstom’s light rail vehicle designed for the North American market, has many features that accommodate Ottawa’s particular needs. Designed in a high capacity, 100% low floor, modular version, the Citadis Spirit can provide a rider-friendly street-running service in Ottawa’s city center, with the versatility to evolve into a light commuter solution on dedicated rights of way to connect passengers with suburbs at speeds up to 100 km/h. The Citadis Spirit can operate in the Canadian climate in winter conditions up to -38°C.

Thanks to its modular design, the Citadis Spirit provides for a very flexible manufacturing process. The Citadis Spirit is being assembled by a local workforce at Belfast Yard Maintenance and Storage facility, creating over 100 jobs in the Ottawa area, with the support of an established supply chain of over 60 Canadian suppliers to meet the 25% Canadian content requirements.

The Citadis Spirit’s highly customizable exterior and interior styling reflects Ottawa’s unique identity and will compliment the urban environment of Canada’s capital.

<sup>1</sup> - Rideau Transit Group - led by ACS Infrastructure Canada Inc., and includes SNC-Lavalin, ACS, Ellidson and other companies with transit and construction experience – is the consortium selected by the city of Ottawa, Ontario, to design, build, finance, and maintain the O-Train Confederation Line

## Technical Scope and Key Features

Nb. & type of vehicle	34 Citadis Spirit
Seated passenger capacity	120
Standing passenger capacity	216
Power supply	Single voltage supply, 1,500 V DC
Vehicle length	48 m
Vehicle width	2.65 m
Entry height	355 mm
Nb. of doors	7 double-leaf doors per side
Accessibility	Perfect alignment between platform & vehicle 100% low-floor vehicle with wide central aisle & inter-communication 4 interior areas devoted to persons with reduced mobility
Maintenance	30 years of maintenance services for vehicles & line infrastructure



## Designed for North America, customized for Canada

Relying on Alstom's extensive experience in developing vehicles for environments with heavy snow and extreme cold conditions, the Citadis Spirit has been adapted for operation up to  $-38^{\circ}\text{C}$ . Winterized solutions, to ensure vehicle operational performance, as well as preserve passenger comfort and experience, have been developed and include reinforced insulation, powerful HVAC, and snow and ice management solutions. All materials used on the vehicles are selected and tested in order to ensure performances in extreme cold conditions.

The production of Alstom's Citadis vehicle has been designed to meet and exceed Canadian content requirements. In Ontario, the Citadis Spirit is engineered with standardized components and a supply chain that includes more than 60 Canadian suppliers to meet Ontario's regulated 25% Canadian content requirement.



For more information  
please contact Alstom:

Alstom  
48, rue Albert Dhallené  
93842 Saint-Ouen, Cedex France

Phone: +33 1 57 06 90 00

Visit us online: [www.alstom.com](http://www.alstom.com)