

# Automatic train control in rail rapid transit

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**What is an automatic train control system?** Automatic train control (ATC) is a general class of train protection systems for railways that involves a speed control mechanism in response to external inputs. For example, a system could effect an emergency brake application if the driver does not react to a signal at danger.

**What is autonomous rail rapid transit system?** ART is specifically referred to as a train or rapid transit by its manufacturer, however the public describes it as a bus. Its exterior is composed of individual fixed sections joined by articulated gangways, resembling a rubber-tired tram. Autonomous Rapid Transit (ART)

**What is the ATS system in railway?** Automatic train stop or ATS is a system on a train that automatically stops a train if certain situations occur (unresponsive train operator, earthquake, disconnected rail, train running over a stop signal, etc.) to prevent accidents. In some scenarios it functions as a type of dead man's switch.

**What is automatic train control TTC?** With ATC, train speed and separation between trains is controlled automatically, through a computerized "moving block" system. The TTC said with the new system, train location can be monitored more accurately, allowing more trains to operate closer together. This change means fewer signal-related delays, the TTC added.

**What is the purpose of an automatic control system?** The primary aims of automatic control are to reduce the inefficiencies inevitably associated with human machine minding. An automatic control system thus includes: (1) the plant, (2) the detecting or sensing element, (3) the measuring or indicating element, and (4) the controller.

**What is the difference between ATC and ATS?** ATS is Air Traffic Services that are services provided to airman while in flight or manouvering at airports. ATS is divided into: ATC - Air Traffic Control is a service provided for the purpose of preventing collisions, expediting and maintaining an orderly flow of traffic (as per ICAO Annex 11)

**How do automatic trains work?**

**What is a transit autonomous system?** transit: An AS that acts as a router between two ASes is called a transit. Since not all ASes are directly connected with every other AS, a transit AS carries data traffic between one AS to another AS to which it has links.

**What are the technology of autonomous trains?** Autonomous trains have some level of automation, such as automatic train protection (ATP) and automatic train operation (ATO). Different levels of automation are available in autonomous trains. The fundamental level of train automation includes ATP, ATO, and automatic trains that stop and cruise at speed on their own.

**How does an ATS system work?** It organizes information about job seekers and makes it searchable. As its name implies, an ATS tracks candidates through the hiring process. It helps with interview scheduling, issues notifications and alerts, and sends automated emails to candidates and employees, such as recruiters and hiring managers.

**What is the function of the ATS?** An automatic transfer switch (ATS) is a device that automatically transfers a power supply from its primary source to a backup source when it senses a failure or outage in the primary source.

**Why is ATS used?** An ATS allows recruiters to match job requisitions to the job-posting sites and the social media channels most appropriate for specific candidates. An ATS also maximizes visibility for internal job boards, while requiring fewer clicks and eliminating barriers for prospective employees.

**What are the advantages of automatic train control?**

**What is train control system?** Train control systems are the hardware and software equipment that monitor train locations and movements in order to ensure safety.

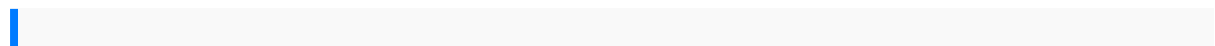
**What is automatic train regulation?** Automatic Train Regulation (ATR) determines the dwell time and the speed profile for a train on an assignment. ATR uses two types of regulation - Schedule Regulation and Headway Regulation.

**What is the difference between DTO and Uto?** GoA3: Driverless train operation (DTO); Train equipped with ATO and ATP but with the presence of on-board staff. GoA4: Unattended train operation (UTO); train operates fully automatically with no driver or attendant on it. For this GoA, control cabs are not required anymore in the rolling stock.

**What is the difference between ATP and ATO?** Whereas ATP is the safety system that ensures a safe spacing between trains and provides sufficient warning as to when to stop. ATO is the "non-safety" part of train operation related to station stops and starts, and indicates the stopping position for the train once the ATP has confirmed that the line is clear.

**What is ATP vs ATO vs ATS?** Automatic Train Control (ATC) is a railway control, supervision and management system composed of three subsystems: Automatic Train Protection (ATP), Automatic Train Operation (ATO) and Automatic Train Supervision (ATS).

**How does an automated train work?**



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