

Siemens' Prefect fault management system is an easy to use, cost-effective method of tracking maintenance, running costs and the reliability of on-street equipment. Prefect can accept fault reports generated automatically by other traffic control systems or entered manually by the operator. When a fault report is received, the system will automatically inform the appropriate maintenance contractor and record performance.

Widely used by local authorities, Prefect is based around a powerful relational database that holds details of all street equipment on a site-by-site basis. Each item of equipment can be referenced by a number, location, street name, landmark or other means of identity.

#### Operator interface

Prefect provides operator access at the master station and also from networked Prefect systems. Password protected user login at these positions provides individual users with the level of access and facilities they require for their work.

#### Data storage

Prefect holds all data relating to individual items of equipment, and its maintenance and servicing. Full equipment inventories including quantities, location, purchase dates and costs can be maintained together with service and maintenance contract details. This information allows the ready entry and storage of fault information relating to the inventoried equipment. Full data entry and manipulation is provided to allow the database to be kept fully up to date with new installations. Back-up facilities are built-in to ensure data security.

#### Fault data entry

Operators can enter data from any Prefect configured workstation connected to the master Prefect system. Additionally, Prefect can accept fault information automatically from other fault reporting systems, such as Siemens' UTC and Remote Monitoring systems. Prefect supports both direct serial and high-speed network links from these systems.



- Cost-effective method of tracking maintenance and reliability of on-street equipment
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- Each item of equipment can be referenced

## Prefect fault management system

Traffic Solutions

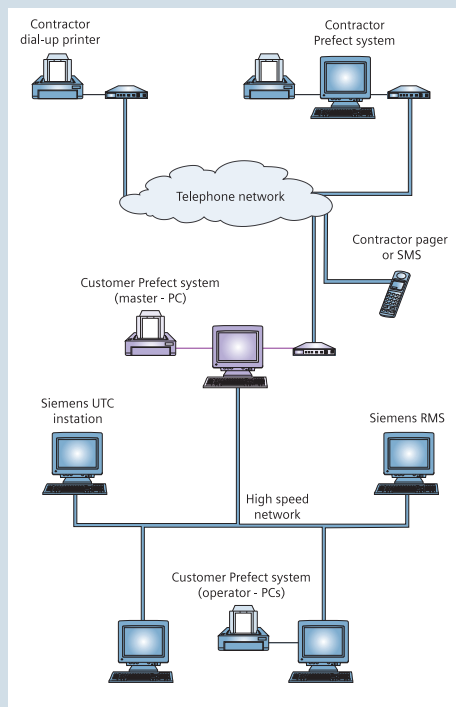
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## Reporting and analysis

Prefect provides comprehensive reporting and analysis tools. Many default report formats are provided including: MTBF, periodic inspections due, outstanding faults and chargeable costs. The system manager also has the facility to create new database query and report formats to allow full customisation of reports.

## Automatic operation

All aspects of operation are configurable by the system manager.



## Configurations

Prefect offers multiple configurations – options include:

- a simple stand-alone system with a dial-up link to a remote printer
- networked operator positions with single or multiple maintenance contractors
- automatic fault notification via Siemens' UTC or Remote Monitoring systems

## Contractor notification

Prefect supports both manual and electronic fault notification to contractors. The system allows configuration for many different notification mechanisms:

**Dial-up printer:** Fault details are sent via PSTN network to a remote printer where a hard copy is produced.

**Dial-up Prefect:** Fault details are sent via PSTN network to a contractor's Prefect system which will then log the fault and alert the user as appropriate.

**Pager and SMS:** Fault details are sent via PSTN network to a pager or mobile phone (SMS).

**Manual:** Prefect generates an operator alert and prompts the operator to pass the fault details to the contractor.

## Contractor systems

The Prefect system can be used by a contractor as well as by the equipment owner. When Prefect is used by both owners and contractors, fault information, occurrences and clearances entered by either party can be automatically sent via an appropriate communications link. Prefect also supports multiple contractors and multiple contractor types. This allows the separate analysis of different contractors not only with different sites but also with different types and items of equipment and with different functions.

## Chargeable works

The system allows for the management of chargeable as well as contract works. Information on visits made and parts used can be held along with charge rates. This allows the automatic reporting of chargeable costs and the validation of received invoices.

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