

MAINSDATA

Low-cost, PCI DSS compliant branch networks for the retail sector

INTRODUCTION

Brown's designed Mainsdata to achieve much faster network access, at much lower costs, than that available through traditional private networks. Mainsdata does this by exploiting the price / performance ratio of the Internet. Savings of 60% or more are achievable.

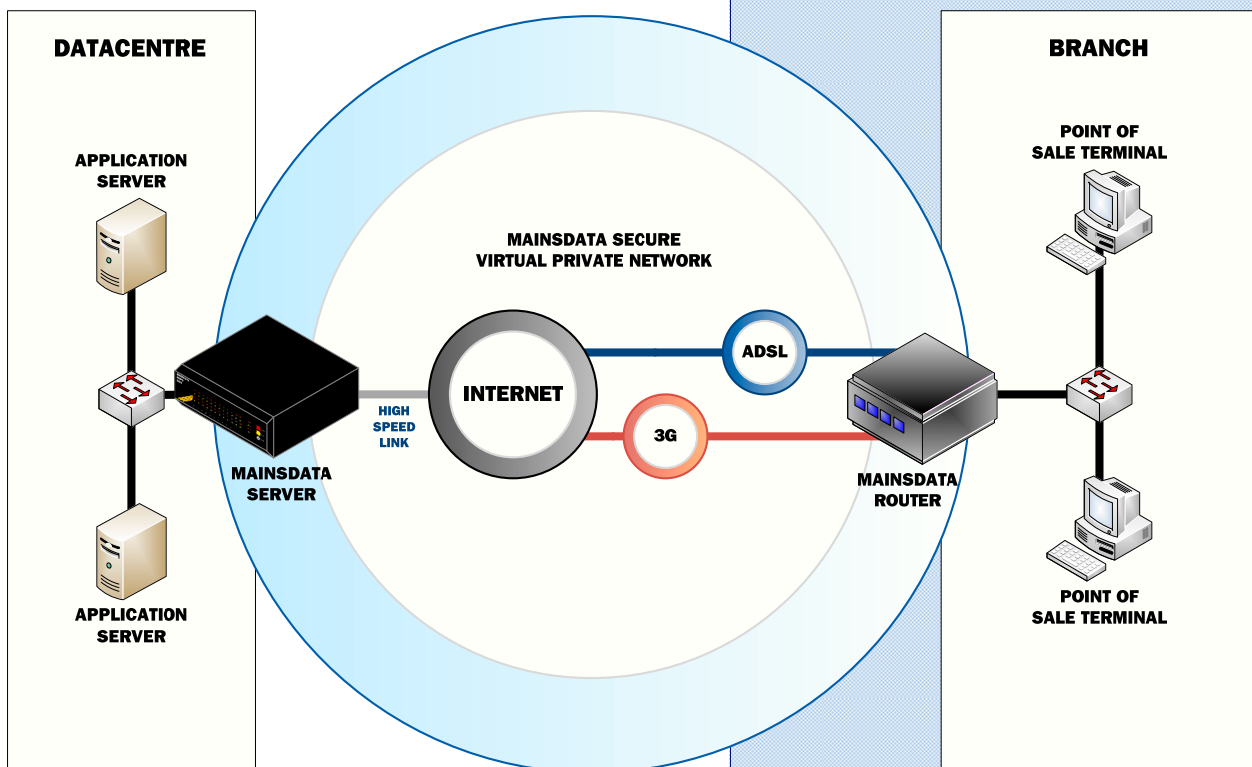
Brown's strong security and "always available" mobile backup are both integral within Mainsdata's architecture. The security implementation allows Mainsdata's branch equipment to communicate only with the trusted central server across a highly secure VPN connection.

This introduces the necessary level of trust and PCI DSS compliance required by a retail network solution that uses the Internet at its core. Similarly, the mobile backup ensures the solution is reliable enough to offer constant availability of service.

Any retail company with multiple branches would benefit from using this approach. For those with an existing private network the payback time is well under a year.

- ✓ Save considerable sums of money
- ✓ Employ a bullet-proof firewall and top-notch security across the Internet
- ✓ Increase the speed of access
- ✓ No configuration required, no reconfiguration allowed
- ✓ Improve the reliability and resilience of the links
- ✓ Comply with requirements 1 and 4 of the PCI Data Security Standard
- ✓ 7 days-a-week management of the network service
- ✓ Direct phone access to an engineer
- ✓ Benefit from individual consultancy, ordering, and installation and setup of both the central site units and the branch units
- ✓ Utilise the integrated legacy SNA and X.25 features and support

10 reasons to choose Mainsdata



MAINSDATA NETWORK FOR THE RETAIL SECTOR

The major features

The branches

Each branch will be equipped with a business broadband service for high-speed access to the Internet. Between the broadband router and the branch network will be a Brown's Mainsdata router with a high-speed mobile connection for resilience. All traffic to and from the branch network will pass through the Mainsdata router.

Mainsdata servers

At the datacentre will be Brown's Mainsdata servers connected downstream to the Internet using high speed pipes and upstream to the datacentre network and thence to application servers.

Mainsdata routers

The Mainsdata routers in the branches will connect to the Mainsdata servers at the datacentres using a virtual private network (VPN) encrypted to very high standards (TLS 1.1 and AES 256-bit with 2048-bit PKI certificates). The Mainsdata router will use the broadband Internet connection when this is available and a parallel mobile connection for continuity of service. Larger branches could use multiple Mainsdata routers.

Deployment

Once the datacentre equipment and services are installed, branches can be taken on in a gradual way.

Solution overview

Undertaking

Brown's will manage the project, in conjunction with customer staff, on an STN basis. We will undertake the following:

Consultancy and planning phase

1. Size the project in terms of data volumes on a branch and central level.
2. Survey all branch locations for communications supply, liaising with telcos when necessary.
3. Assess the network topology at the datacentre and in the branches.
4. Agree capacity with the customer.

Solution overview continued

5. Liaise with datacentre team and agree installation requirements.
6. Liaise with the branch level technology team and agree installation requirements.
7. Agree the order to proceed with customer.

Server commissioning phase

1. Order Internet pipes.
2. Supply, configure and install Mainsdata servers.
3. Test access to central applications.

Router commissioning phase (for each branch)

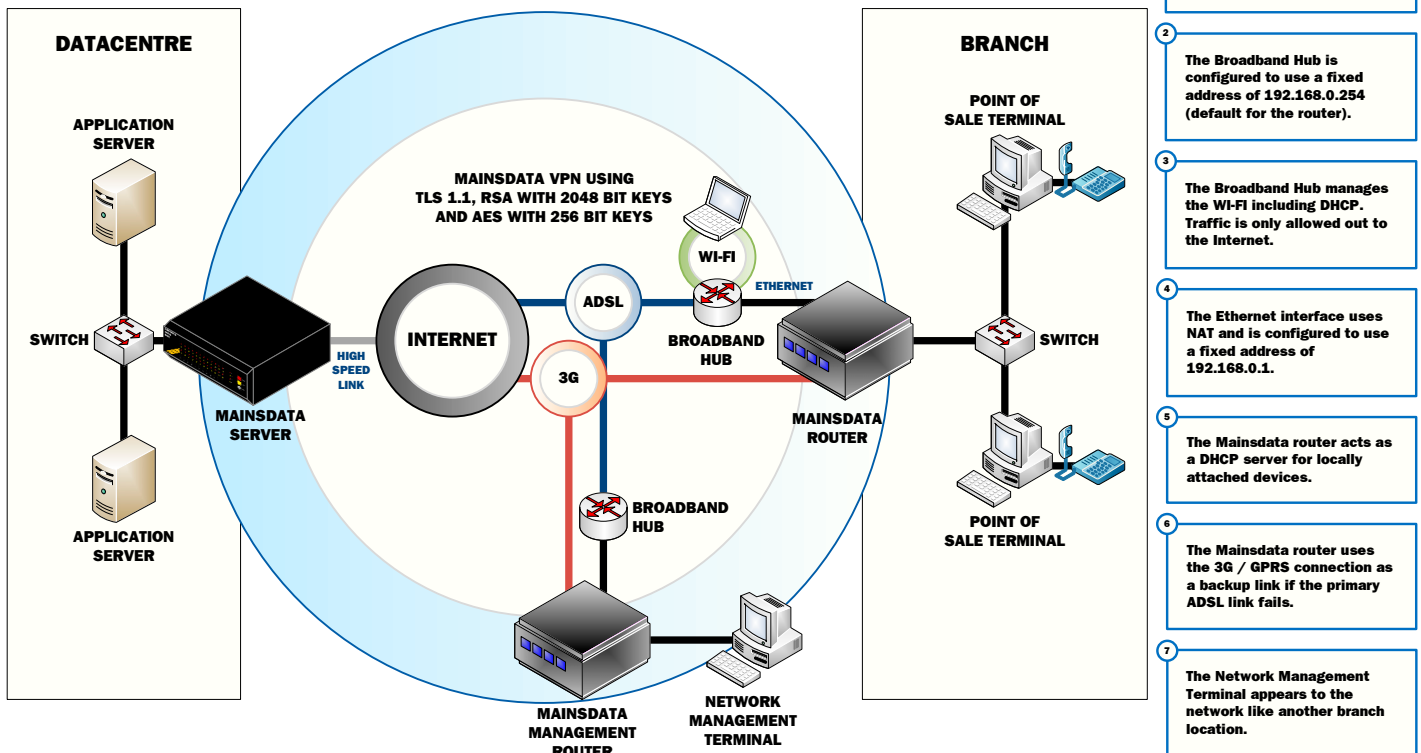
1. Order broadband circuit and oversee its supply and installation.
2. Order mobile GPRS/3G/HSDPA connection and oversee its supply.

Supply, configure and install Mainsdata router

1. Test connectivity via both paths to datacentre and applications.
2. Switch over branch communications from private network to Mainsdata.

Operational Phase

1. Carry out central billing and reporting.
2. Monitor all sites.
3. Report problems to customer and telco.
4. Monitor technical response.
5. Fix or replace faulty Mainsdata units.



NETWORK DETAIL FOR THE RETAIL SECTOR

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