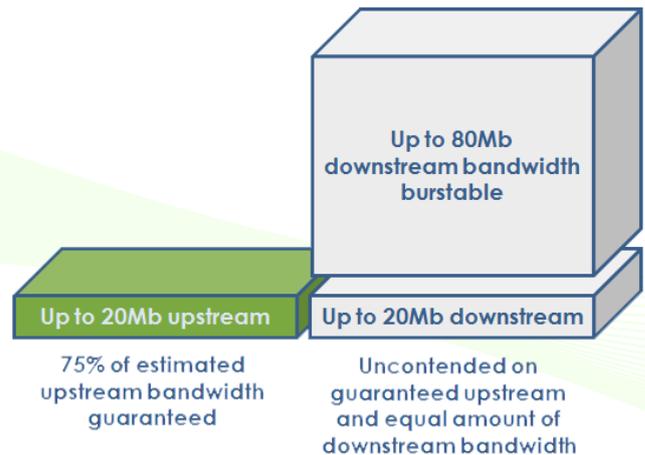


## EoSFB: the new FttC

OK, FttC isn't that old, but SWGfL and RM IHG have been working on a new and better version: EoSFB.

It's 'an up to 20Mb' symmetrical solution, with 75% of the estimated upstream bandwidth guaranteed. It's uncontended on this guaranteed upstream bandwidth, and an equal amount of downstream bandwidth, even during peak times.

The solution can also run downstream bandwidth to up to 80Mb. This makes it a great all-round solution, suitable for a wide range of settings and capable of supporting all sorts of requirements.



### Key Features

- Up to 80Mb downstream bandwidth
- Up to 20Mb upstream bandwidth
- 75% of estimated upstream bandwidth is guaranteed
- Guaranteed upstream bandwidth, and equal amount of downstream, is uncontended
- No usage limits, subject to acceptable use
- Managed quality features, like packet loss and latency
- Same business day fault rectification SLAs
- Can be monitored via ESI, like all other SWGfL Ethernet circuits

### Key SWGfL Benefits

As with all SWGfL solutions, there are many unique benefits to receiving your EoSFB solution through SWGfL, including:

- Full SWGfL Schools Internet 'Core Service'
- Full fibre interconnections from our core network for the best possible performance
- Private and static IP provision to support remote access, VPN, SMTP feeds and other links to your school systems
- Support for multiple LANs (e.g. an admin and curriculum LAN) ◆
- Supported through the Service Desk and 'managed service' wrap: we run the service and you can focus on running your school

◆ dependent on suitable CPE being selected

### Included in your Service

Your Schools Internet Service really is a service, including:

- The circuit, the bandwidth and the internet connection
- SWGfL core network, including IP, DNS and other network services
- Our unique approach to blocking illegal content and reporting to the police
- Security services, including managed firewalls and market leading email security
- Our dedicated Service Desk and 24x7 network monitoring and ESI
- Change management, meeting changing needs usually without any additional charges

### Why use SWGfL?

The SWGfL EoSFB solution has been designed to offer you the most cost-effective connectivity in your area, whilst maintaining performance and the benefits of SWGfL's Core Service.

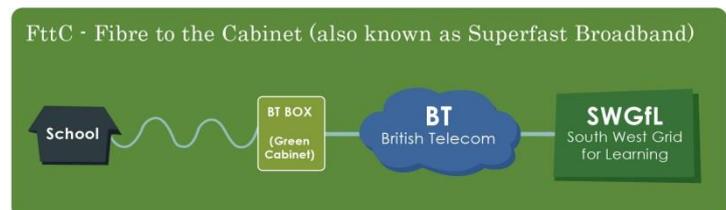
It's important to distinguish between services provided by SWGfL and services available for individual purchase from commercial providers. SWGfL provides a bespoke, managed network, but also a full service wrap delivering safe, secure, high-performance, education-specific services across the entire south west region, far above and beyond just a connection to the Internet.

More often than not school operations require more than just a connection to the internet. This isn't just about the level of bandwidth available, but how the other elements of the service combine to support this way of working collaboratively. You'll be 'on-net' with our service, getting all the benefits of the SWGfL Core Service, including our unique approach to online safety and our security services, including centralised, managed firewalls.

It's worth remembering too that schools considering procuring from elsewhere don't just lose these benefits, but also become responsible for it themselves, including such elements as an appropriate level of safety and security. SWGfL has a long and successful track record in ensuring these things are all dealt with, meaning schools can focus on their main priorities rather than their connectivity.

## What is FttC?

FttC stands for 'Fibre to the Cabinet', referring to the BT green cabinets you see in the streets. BT and other operators are rolling out a range of technologies to deliver higher speeds, including both fibre to the cabinet (FttC) and fibre to the premise (FtTP).



The bulk of BT's deployment to date is based on FttC, and BT is investing c£2.5 billion to reach more of the country with its broadband programme over the coming years. BT's FttC deployment is part of its NGA scheme, which you may also hear referred to as 'Infinity' or 'Superfast Broadband'.

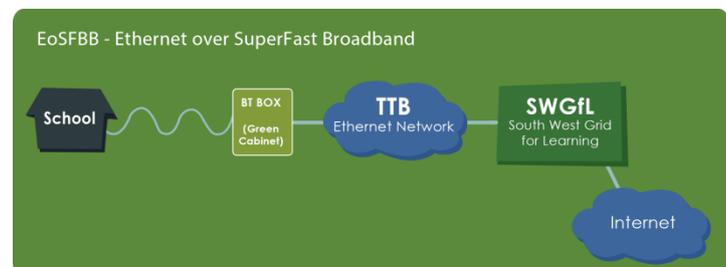
FttC works in a similar way to the ADSL products (i.e. delivered over a phone line) we've had for some time, except that it's a lot faster due to the use of fibre in many parts of the network.

How? The BT green cabinets are upgraded to house larger, more powerful equipment. The connection to your premises (from the green cabinet) still uses the telephone line, but the connection from the cabinet to the exchange (using this enhanced kit) uses a fibre optic cable, meaning a faster connection.

## What is EoSFB?

It stands for 'Ethernet over SuperFast Broadband', and it's the next generation of broadband solutions utilising the BT Superfast Broadband rollout.

It's similar to FttC in many ways, but the link between the school and the green cabinet is made using a new 'MPF' line (like a phone line but for data only, not voice).



Don't worry, we'll schedule the installation of this new line for you: your assigned Project Co-ordinator will make all the arrangements. And it's included in the charges too. ❖

**SWGfL Schools Internet Service, powered by RM Internet Hosting Group** **RM Education**

From the green cabinet, we route the data through the TalkTalk Business 'All IP Next Generation Network' and on to the SWGfL core network where the security, safety and network services are provided. We've got multiple high-speed links to the internet too, so your data moves 'superfast' all the way through.

Like FttC, EoSFB isn't available everywhere. The availability of EoSFB is increasing though, and generally follows the Openreach (the 'wires' part of BT) Superfast Broadband deployment. Currently, over 1,400 exchanges (over 45,000 green cabinets) around the UK support EoSFB.

❖ new MPF line included in EoSFB charges, assuming standard Openreach installation scope.

## Frequently Asked Questions

### **How do I know if EoSFB is right for me?**

As a charity, SWGfL is only here to help you – delivering the right services and providing honest, reliable and expert advice. We can provide an appraisal of these options, based upon your usage patterns; an analysis of technologies available; and their likely 'real world' performance (which can differ from the 'advertised speed') for your specific site.

Drop us a line ([sis@swgfl.org.uk](mailto:sis@swgfl.org.uk)) with your main phone number (we use this to perform an indicative line test, for availability and performance estimates) and details including number of users, number of devices, and the sorts of things you use (e.g. web browsing, streaming media, learning platform etc) and we'll get back to you.

### **Does EoSFB require a PSTN Line, like FtC does?**

No, it doesn't. It does require a new line, called an 'MPF' line, but this is not a PSTN Line (as it doesn't carry any voice signals, only data).

This new MPF line is installed as part of the EoSFB provisioning process.

### **Is the EoSFB solution contended?**

All Ethernet-based solutions have a degree of contention, but this is minimised in the EoSFB solution. 75% of the estimated upstream bandwidth is guaranteed, and it's uncontended on this guaranteed upstream bandwidth, along with an equal amount of downstream bandwidth, even during peak times.

The SWGfL EoSFB service also benefits from the same high performance network backhubs as our other solutions, which features no operational contention, ensuring that the overall contention levels are kept as low as possible.

### **Is the performance guaranteed?**

No, like all solutions based on copper the performance is variable, depending on the quality of the copper and the distance from the exchange. As part of the EoSFB provisioning process, however, an individual (site-specific) estimated upstream bandwidth expectation is provided, and EoSFB is guaranteed to provide at least 75% of that.

### **How quickly can EoSFB be installed?**

Typically, within 20 working days from receipt of an order, though this is largely dependent on the provisioning of the new MPF line.

### **Can any other charges apply?**

There can be 'excess construction charges' following the site survey. This might be for specialist installation equipment (e.g. to reach certain install points), longer cable runs, or where digging is required.

These are relatively uncommon and we hope in the majority of cases that the charges presented will be inclusive of all works required.

### **What if I have further questions...can I talk to somebody?**

Yes you can, please do drop us a line at [sis@swgfl.org.uk](mailto:sis@swgfl.org.uk) to let us know when you'd like to schedule a call and we'll arrange to contact you.

### **Once I'm happy with the details, what do I do next?**

Drop the Schools Internet Service Team a line ([sis@swgfl.org.uk](mailto:sis@swgfl.org.uk)) to confirm that you are happy to proceed, and we'll be in touch to run through the order process with you.