

internet4trains

The market for train-based broadband wireless services

www.internet4trains.com

BWCS

Turning technology into business

internet4trains

The market for train-based broadband wireless services

The Service

Internet4Trains.com is an online database covering all the latest trials, developments, contracts and new services emerging in the niche market for on-train WiFi services across Europe and beyond. Produced by BWCS, which has a twelve year record working with many of the major players in this field, this new service will capture and keep constantly up to date information on the fast-evolving WiFi on Trains sector.

For only £195 a month, you can gain access to this wide-ranging, constantly updated unrivalled coverage.

Our team of expert researchers, speaking directly to our long list of contacts at train operators and rail administrators, will become your eyes and ears in this market.

Can you afford to miss out?

One thing you can be sure of, if you are not accessing this invaluable trove of information, your competitors will be.

A growing market.

The emergence of competition among passenger train services across Europe is giving strong impetus to the WiFi on Trains sector. At the same time, travellers' insatiable desire for ever-faster online connectivity is set to produce an abundance of new WiFi on Trains contracts, as operators fight with each other to entice passengers aboard their trains.

For the past twelve years, BWCS has been at the forefront of this market, both as consultants to many of the major players and as organisers of the annual, global WiFi on Trains Conference (www.Traincomms2019.com). Now, for the first time, we have brought together all of our contacts, knowledge, research and reporting of this niche market in one place.

The Internet4Trains database covers all of the European markets for on-train WiFi services. China, India and the USA will also be added shortly.

Country by country, Internet4Trains examines and evaluates the potential new revenue streams and cost-saving services being introduced by forward-thinking train companies, as well as detailing all train and metro services where WiFi is not yet available.

The database provides a vital insight into the true potential of these new services.

Internet4Trains.com will tell you:

- Which train operators have launched WiFi on Trains?
- What percentage of their fleet offer WiFi?
- How popular are these services?
- Where is the best potential for expansion?
- What scope is there to expand the market?
- Who are the main competitors?
- Which train companies have launched these new services?
- Which services are winning out?
- How far and how fast will the market grow?
- Which suppliers are winning the battles for new customers?
- Which train operators are making a success of their on-train WiFi services?

Internet4Trains will help the rail sector keep tabs on developments in this increasingly competitive market. It will also help you decide on whether or not the business case for on-train WiFi, entertainment services, mobile voice enhancement, on-train advertising, online ticketing, passenger counting, vehicle tracking and other new systems really holds up.

It will also help suppliers keep constant track of new contracts, trials and procurements as the BWCS Transport team speak to our network of contacts within the industry.

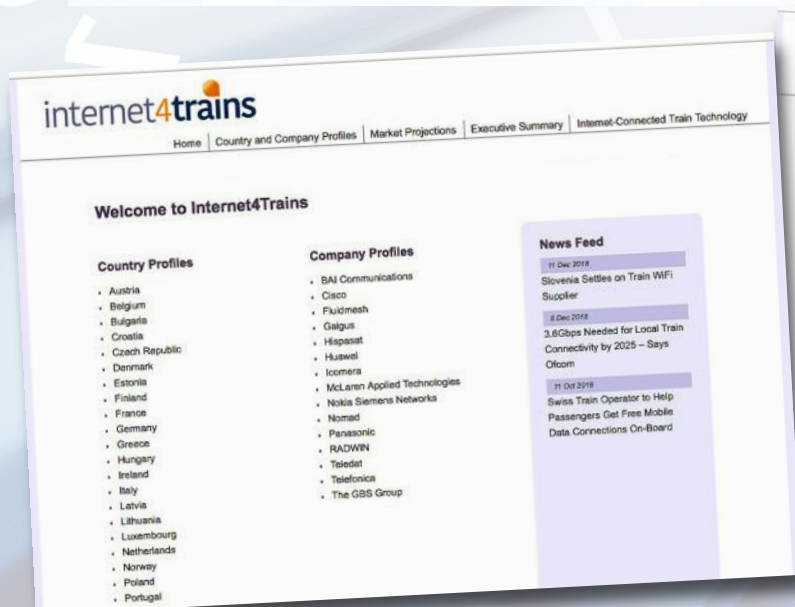
Internet4Trains examines every European country and details which train operators and which suppliers are offering these new services and how many trains are covered.

In short, the database is an invaluable tool for keeping a close eye on the developments in this exciting and dynamic new market. For those investing in this area, running train services or looking to get involved, it provides a constantly updated pool of knowledge that no-one in the industry should be without.

To subscribe for £195 a month (minimum term 12 months) please use the order form provided, or go to www.Internet4Trains.com

To learn more about the database and how it could benefit your company, please e-mail Ross.Parsons@BWCS.com

To learn more about our annual WiFi on Trains Conference, please click here www.Traincomms2019.com



Internet4Trains.com - the Broadband to Trains Services Online Database

1. Executive Summary

- 1.1. History
- 1.2. Business Case
- 1.3. Market drivers
- 1.4. Market leaders
- 1.5. New tests and trials
- 1.6. Future for WiFi on Trains

2. Train-Based Broadband Technologies

- 2.1. Solution Components
- 2.2. Track to train solutions
- 2.3. Trackside Infrastructure

3. Major Systems Suppliers Profiles

Each profile features:

- Activities and Markets
- Ownership and Company Financials
- Acquisitions, Joint Ventures
- Projects: Train Operator Partner and Project Description
- General Contact and website details

- 3.1. Icomera
- 3.2. Nomad
- 3.3. BAI Communications
- 3.4. RADWIN
- 3.5. Fluidmesh
- 3.6. Huawei
- 3.7. Cisco
- 3.8. Galgus

- 3.9. Telerail
- 3.10. Telefonica
- 3.11. Teledat
- 3.12. The GBS Group
- 3.13. Hispasat
- 3.14. Panasonic Technologies
- 3.15. McLaren

4. European Country Profiles

Each profile features:

- Key Data Table
- Market Structure and Regulation
- National Rail Regulator
- National Infrastructure Provider
- Inter-city Rail
- High-Speed Rail
- Commuter Rail
- Metro Systems
- Broadband on Trains
- Country Scorecard

- 4.1. Austria
- 4.2. Belgium
- 4.3. Bulgaria
- 4.4. Croatia
- 4.5. Czech Republic
- 4.6. Denmark
- 4.7. Estonia
- 4.8. Finland
- 4.9. France
- 4.10. Germany
- 4.11. Greece
- 4.12. Hungary
- 4.13. Ireland
- 4.14. Italy
- 4.15. Latvia
- 4.16. Lithuania

- 4.17. Luxembourg
- 4.18. Netherlands
- 4.19. Norway
- 4.20. Poland
- 4.21. Portugal
- 4.22. Romania
- 4.23. Slovakia
- 4.24. Slovenia
- 4.25. Spain
- 4.26. Sweden
- 4.27. Switzerland
- 4.28. Turkey
- 4.29. United Kingdom

5. Train-Based Broadband Usage - Current Market and Forecasts

- 5.1. Passenger Kms, by Market 2018 – 2028
- 5.2. Passengers Journeys, by Market, 2018 – 2028
- 5.3. WiFi-Equipped Passenger Carriages 2018 – 2028
- 5.4. WiFi-Equipped Carriages % of Total Rolling Stock
- 5.5. Number of on-train WiFi users by Market 2018 – 2028
- 5.6. On-train WiFi Advertising Market 2018 – 2028
- 5.7. Estimated increase in Train Operators' Revenues by Market 2018 – 2028
- 5.8. Total value of train-based broadband Market 2018 – 2028

Intercity Train Operators

Operator	Routes	Passenger pa	Fleet size (Passenger cars)	WiFi	WiFi Supplier
ÖBB State-owned	Domestic routes	250 million (end 2018)	2,640 (2018)	Y	Nomad 168 trains (2018)
ICE-T DB	Major cities Austria-Germany	N/A	224 (2018)	Y	Icomera

Commuter Train Operators

Operator	Routes	Passenger pa	Fleet size (Passenger cars)	WiFi	WiFi Supplier
S-Bahn ÖBB Steiermark	Graz	N/A	N/A	No	-
ÖBB	Graz	N/A	N/A	No	-
ÖBB S-Bahn Tirol	Innsbruck	N/A	N/A	No	-
ÖBB S-Bahn Kärnten	Kärnten	N/A	N/A	No	-
ÖBB S-Bahn Salzburg	Salzburg	N/A	N/A	No	-
ÖBB S-Bahn Wien	Vienna	109.5m (2017)	N/A	No	-

ÖBB is rolling out WiFi on all 3 S-Bahn lines (S7 Graz-Köflach, S61 Graz-Wien-Eibiswald (express service), S6 Graz-Wien-Eibiswald (local service)).

High-Speed Rail Operators

Operator	Routes	Passenger pa	Fleet size (Passenger cars)	WiFi	WiFi Supplier
ÖBB Railjet	National & Inten'l	38 million (2016)	357	Yes	Nomad 357 carriages
ICE-T DB	Major cities Austria-Germany	na	224	Yes	Icomera

BWCS was founded in 1995 and has more than twenty years experience of primary and secondary market research. We work with technology companies to maximise their market development and commercial activities, and we have a global customer base of service operators, equipment vendors, integrators, government bodies and industry regulators

Our clients use us because we are flexible, responsive, honest, knowledgeable and effective. BWCS boasts a small core team of staff and around twenty multinational/multilingual associates with specialist industry or technology knowledge.

internet4trains

Order form

How to purchase a company wide subscription to the [internet4trains](http://www.internet4trains.com) website:

Simply fill in this form and either send or scan & email it back to us or credit card purchases can be made securely online at www.internet4trains.com

Purchase details

Step 1

Choose the billing currency

(note – credit card payments will be charged in £s only)

Please tick box

☐ £☐ US\$☐ Euro

Step 2

Yes I wish to purchase access to www.internet4trains.com

Annual subscription ☐ £2290

UK companies should add VAT at the prevailing rate, EU Companies do not need to add VAT providing they supply a valid VAT number, and all other purchase do not need to add VAT.

If you have selected US\$ or Euro as your billing currency, the subscription will be converted at the currency exchange rate on the day of purchase.

Step 3

How would you like to pay?

To pay by credit card go to www.internet4trains.com

or I have arranged a bank transfer ☐ See bank transfer panel

or Cheque enclosed ☐ Payable to BWCS Ltd

or Please invoice my company ☐

Cancellation Policy

You may cancel your subscription at any time providing that your login details have not been utilised.

Please return this Order Form to

**BWCS Ltd, 6 Worcester Road, Ledbury,
Herefordshire HR8 1PL, UK**

Tel: +44 1531 634326

I would like to find out more about BWCS's Consulting Practices:

☐ Telecommunications☐ Regulation☐ Transportation☐ Defence & Security

Order details

Name

Position

Organisation

Address

Town/City

ZIP/Postcode

Country

Telephone

Fax

Email

Signature

Date

VAT

Company VAT number:

Bank Transfer

To pay direct by bank transfer please contact
Elaine.Cale@BWCS.com

WiFi on Trains Conference

For the past twelve years BWCS has organised and hosted the Global WiFi on Trains Conference – Train Communications Systems.

This event has become the vital meeting point for train companies, rail administrators, suppliers and technology specialists all looking to drive this sector forward.

More information at:

www.Traincomms2019.com

or e-mail: Ross.Parsons@BWCS.com