



OVERVIEW AND UPDATES · CONTENT DELIVERY AND STREAMING

DVB-I Services over 5G

DVB-I service discovery combined with 5GMS and 5G Broadcast delivery

3GPP

DVB

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About the project

DVB-I services over 5G Systems rest on three documents

ETSI TS 103 770

Technical Specification

Service discovery and programme metadata for DVB-I, published by DVB as A177: latest published V1.2.1; the draft A177r8 (V1.3.1, 30 June 2026) adds versioning, mDNS discovery, signature checks and linked applications.

ETSI TR 103 972

Technical Report

Deployment guidelines for DVB-I service delivery over 5G Systems, by the DVB and 5G-MAG Joint Task Force. It records gaps as recommended changes.

DVB C100

Commercial requirements

The commercial requirements for DVB-I over 5G, which the technical report maps into a reference architecture.

[FIND OUT MORE](#)

Technical Analysis

Specifications

Reference Tools

What 5G adds

DVB-I is a delivery-agnostic service layer; each service instance binds a service to a bearer

More devices

Devices without a tuner

Phones, tablets and vehicles have no DVB-T tuner but do have 5G modems. 5G Broadcast reaches them without the per-user cost of unicast, and the service provider keeps the control DVB-I gives.

Broadcast scale

One copy for everyone

A 5G Broadcast transmission carries one copy of a popular linear channel however many people watch. Unicast cost grows with the audience; broadcast cost does not.

Hybrid services

One service, two bearers

A basic service is distributed over broadcast and augmented by unicast for wider coverage, better quality and experiences broadcast alone cannot provide. The service list holds the two halves together as one service.

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Three ways to deliver

How the service instance meets 5G, in the deployment guidelines

BROADCAST ONLY

Standalone 5G Broadcast

DVB-DASH content is carried in MBMS User Services, and the selected service instance refers to the MBMS User Service.

UNICAST ONLY

DVB-I over 5GMS

The service instance references a DASH source served through 5G Media Streaming. The DVB-I layer above is unchanged.

BROADCAST AND UNICAST

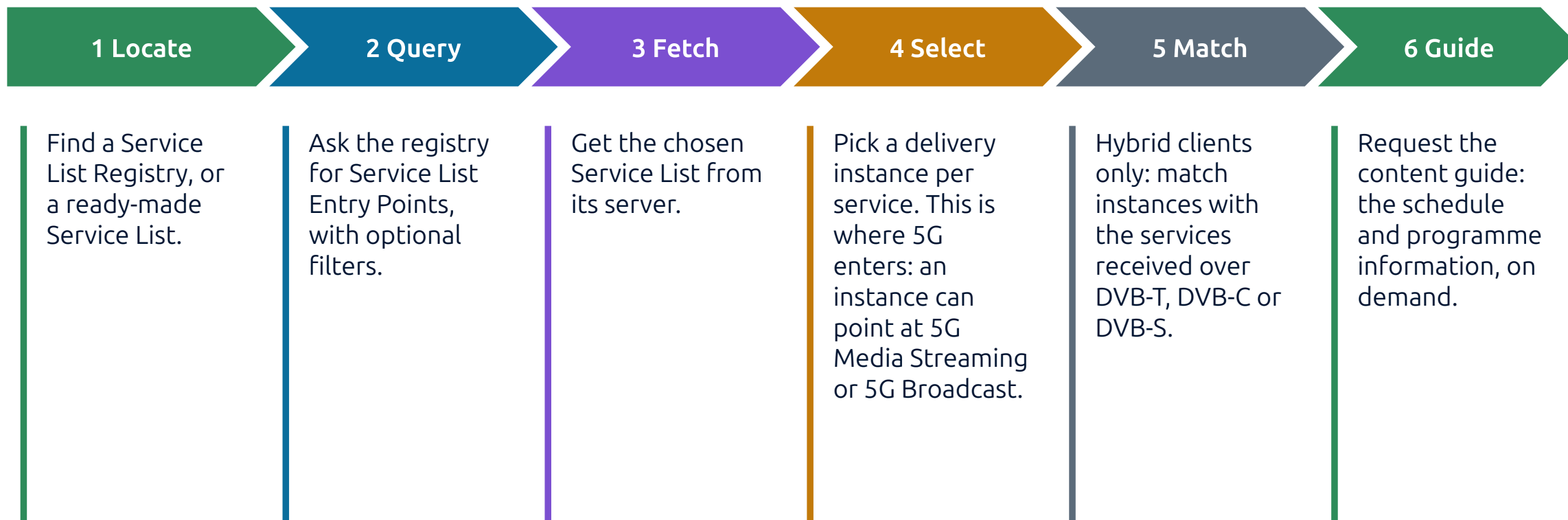
Concurrent or hybrid

Both a 5G Broadcast instance and a unicast instance are present for the same service; the client selects or switches between them.

The service list holds the delivery options together as one service.

How a client finds a service

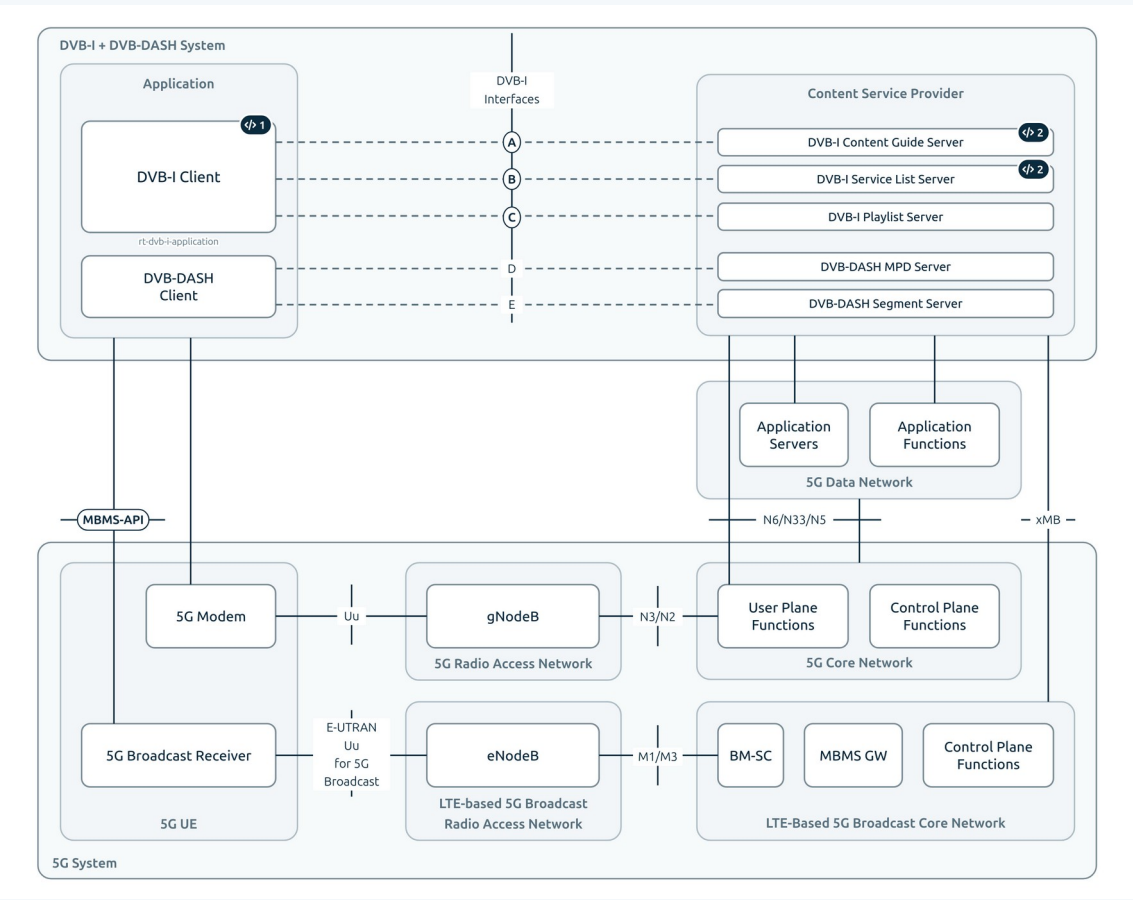
From a cold start to content guide data



Steps 1 to 3, 5 and 6 are plain DVB-I mechanics, the same over cable, satellite, terrestrial TV or 5G.

Architecture

The DVB-I system, and the 5G System it can be delivered over



PROVIDED BY THE REFERENCE TOOLS

- 1 `rt-dvb-i-application`
- 2 `rt-dvb-i-application-provider`

Boxes without a badge are not mapped to a repository.

IMPLEMENT

Repositories

What the tools implement on main, against the draft A177r8 (TS 103 770 V1.3.1); the 5G parts are outside that audit

REPOSITORY	WHAT IT IS	COVERS	LATEST RELEASE
rt-dvb-i-application	Browser DVB-I client that discovers, presents and plays a service list	Discovery DASH, HLS	● none yet
rt-dvb-i-android-application	Native Android DVB-I client, playing with Media3 ExoPlayer	Selection rules Programme requests	● none yet
rt-dvb-i-application-provider	Publishes a DVB-I service list and its content guide, with an editor	Service list Editor	● none yet
rt-dvb-i-service-list-registry	Answers client queries with a list of Service List Entry Points	Entry point queries	● none yet
rt-dvb-i-examples	Runnable examples that bring the DVB-I repositories up together	Examples	● none yet
rt-5gms-application	Test and demo apps for 5GMS, including the Exo DVB-I Player	Exo DVB-I Player 5GMSd-Aware Application	● v1.3.0 26 May 2026

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● released

● no release yet

Latest updates and roadmap

Status on 23 October 2026



MERGED SINCE V1.3.0 1 pull request in 1 repository

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