

# **B B C** Dirac

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on behalf of



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# Dirac: Project Goals

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- Develop a truly open video codec, enhancing public access to the content of the BBC (and other Public Service Broadcasters).

# Dirac: The Schrödinger Project

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- Current Dirac codebase being maintained as a reference implementation
- Schrödinger project started to develop a practical, consumer-grade implementation
  - Dave Schlee (of liboil) doing the work for Fluendo
  - Free-standing library with gstreamer plugin
  - Real-time SD decoding on modest hardware
  - Expect compression as good or better than Dirac
- Targetting a stable release in 4-6 months

# Dirac Specification

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- “Pretty much nailed down”
- Schrödinger developed from the specification
- Low-delay support added for professional applications (TV production)
  - Drops arithmetic encoding
  - Reduces HD content to SD bitrates to allow production with current SD infrastructure
  - Expect to standardise these components with SMPTE in the next few weeks

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- 4 • Full standardisation in the next couple of years

# Dirac Hardware

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- “Dirac Pro” - Boxes for studios to use for link-replacement
  - Dual HD (1080p/50 Hz) over HD infrastructure
  - HD over SD infrastructure
  - Much simpler than a full Dirac system
  - Plan to go on sale in the next few months
- Full HDTV encoder demonstration
  - Hope to demo in September at IBC
- In discussion with a major manufacturer for a non-broadcast application