



Your Extensible Software-Defined Radio

YesDR Technical Specifications

YesDR TS 00.000

Version 1.0.0

Release 1

Release-1 Master Index

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1 Scope

This Technical Specification defines the structure, organization, and indexing of all YesDR Release-1 Technical Specifications.

The Master Index serves as the authoritative reference for all documents forming the YesDR Release-1 standard.

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2 Release Definition

YesDR Release-1 defines the baseline architecture and functionality for an end-to-end, SDR-based cellular wireless system with AI-assisted spectrum and radio resource management.

Release-1 includes specifications covering:

- Overall system architecture
- User equipment and radio access
- Core network functions
- User plane and tunneling
- Cognitive radio and spectrum intelligence
- Control and management protocols

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3 Specification Numbering Scheme

YesDR specifications are grouped as follows:

- TS 00.xxx – Overall system, governance, and indexing
- TS 02.xxx – Network functions and architecture
- TS 03.xxx – Control, signaling, and management protocols
- TS 04.xxx – Spectrum, cognitive, and AI functions

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4 Release-1 Specification List

4.1 TS 00 Series – Overall Specifications

TS Number	Title	Status
TS 00.000	Release-1 Master Index	Approved
TS 00.001	Overall System Description	Approved
TS 00.002	Terminology and Conventions	Planned
TS 00.003	Conformance and Compliance	Planned
TS 00.005	Information Element Registry	Planned

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4.2 TS 02 Series – Network Functions

TS Number	Title	Status
TS 02.020	YesDR Base Station (YBS)	Approved
TS 02.021	YesDR User Equipment (YUE)	Approved
TS 02.001	YesDR Access Management Function (YAMF)	Approved
TS 02.002	YesDR Session Management Function (YSMF)	Approved
TS 02.003	YesDR User Plane Function (YUPF)	Approved
TS 02.004	YesDR Unified Data Management (YUDM)	Approved
TS 02.005	YesDR Authentication Server Function (YAUSF)	Approved
TS 02.006	YesDR Policy Control Function (YPCF)	Approved
TS 02.009	YesDR Network Repository Function (YNRF)	Approved

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4.3 TS 03 Series – Protocols and Signaling

TS Number	Title	Status
TS 03.001	YesDR Access Control Protocol (YACP)	Approved
TS 03.002	YesDR Spectrum Management Protocol (YSMP)	Approved

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4.4 TS 04 Series – Spectrum and Cognitive Functions

TS Number	Title	Status
TS 04.010	YesDR Spectrum Monitor (YSM)	Approved
TS 04.011	YesDR Cognitive Radio Function (YCRF)	Approved
TS 04.012	YesDR Radio Management Function (YRMF)	Approved

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5 Document Relationships

All YesDR Release-1 specifications SHALL be interpreted in conjunction with TS 00.001.

Protocol specifications (TS 03 series) SHALL reference their corresponding functional entities in TS 02 series.

Spectrum and cognitive specifications (TS 04 series) SHALL be considered optional unless mandated by a specific conformance profile.

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6 Release Status

YesDR Release-1 is declared functionally complete.

Future releases MAY introduce enhancements in:

- Mobility and handover
- Multi-RAT operation
- Advanced AI-driven optimization

Backward compatibility rules SHALL be defined in future TS 00.xxx specifications.

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