IEEE 802 YANG proposed system overview for IEEE 802 YANG SC

Proposed shared services and group repositories

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802 • 802.1 • 802.3 • 802.11 • 802.15

Overview of the proposed structure and service interfaces

Target system structure

IEEE 802 shared services
PDF tooling • YANG tooling • guides • dictionaries

ieee802-PDF-tooling • ieee802-YANG-tooling (versioned packages)

802.1 public repo Published YANG modules	802.3 public repo Published YANG modules	802.11 public repo Published YANG modules	802.15 public repo Published YANG modules
Optional private area Group inputs + metadata	Optional private area Group inputs + metadata	Optional private area Group inputs + metadata	Optional private area Group inputs + metadata
Private source → own public models	Private source → own public models	Private source → own public models	Private source → own public models

Each group has a Group Lead and Public Area Developer; Private Area Developer applies when a private area exists.

IEEE 802 shared services

PDF processing

- Generic PDF utilities
- Amendment processing based on the IEEE Style Manual

YANG processing

- Syntax, semantics, and language review
- Formatting tools
- RFC-based YANG 1.1 guidance
- Supplemental IEEE 802 YANG style guide

Supplemental dictionaries

- YANG RFCs
- IEEE Style Manual
- IEEE 802 PDF documents
- Supplemental IEEE 802 YANG guide
- Group-specific additions, such as an 802.3 dictionary

Tools and dictionaries are distributed through pip packages or an equivalent versioned package interface.

Shared 802 content is maintained centrally; groups consume pinned releases.

Group repositories and roles

A repeatable model for 802, 802.1, 802.3, 802.11, 802.15, and future groups

PUBLIC AREA

Public repository containing that group's published YANG modules. Models may include or reference peer models.

PRIVATE AREA (OPTIONAL)

Private repository may hold source material used to derive group-specific metadata and public models.

GROUP ROLES

Group Lead • Public Area Developer • Private Area Developer (when a private area exists)

IEEE 802 provides shared processing, guidance, dictionaries, and package releases to lower-layer groups.

Component interfaces

COMPONENT	CONSUMES	PRODUCES / PROVIDES
PDF tooling	PDF documents; IEEE style rules	Generic and amendment processing; derived PDF artifacts
YANG tooling	YANG modules; RFC and IEEE 802 guidance; dictionaries	Review findings, validation results, formatting functions
Group private area	Group source material	Group-specific metadata and inputs for public model work
Group public repo	Reviewed metadata; shared YANG tooling	Versioned, published YANG models
Peer public repos	Published peer YANG models, when needed	Models a group may include or reference

Data boundaries and Clause 30

Peer-group exchange

Groups exchange data only by publishing YANG models that peer models may include or reference.

Private-to-public flow

A group’s optional private source area feeds only that group’s public model work. Private source material and derived internal metadata do not cross to peer groups.

Clause 30 producer boundary

Move reusable PDF processing, YANG validation/review, formatting, and shared dictionaries to versioned shared tooling. Keep Clause 30 source extraction, transformation rules, and 802.3-specific metadata with the producer unless review shows a genuinely reusable function.

Delivery sequence and Git strategy

1	**Preserve current work**	Create v1-5-0 branch from the current local state; attach work to Issue #16.
2	**Restore release baseline**	Return release-v1-0-1 to v1-0-0 contents; remove Draft and Experimental modules; attach to Issue #10.
3	**Port selected fixes**	Bring Approved-module technical, syntax, spelling, and prose changes from v1-5-0; exclude maximum-line-length and other automated formatting changes.
4	**Extract and package tools**	Agree repository/package names and interfaces; split shared PDF/YANG functions, guides, dictionaries, and fixtures with versioned releases.
5	**Integrate and expand**	Update Clause 30 producer to consume pinned packages; then establish peer-group public repos and optional private source areas.

Use separate branches and reviewable merge requests for v1-5-0, v1-0-1 restoration/port, shared tooling extraction, and producer integration. Link changes to their issues; release packages after the owning repository's review.