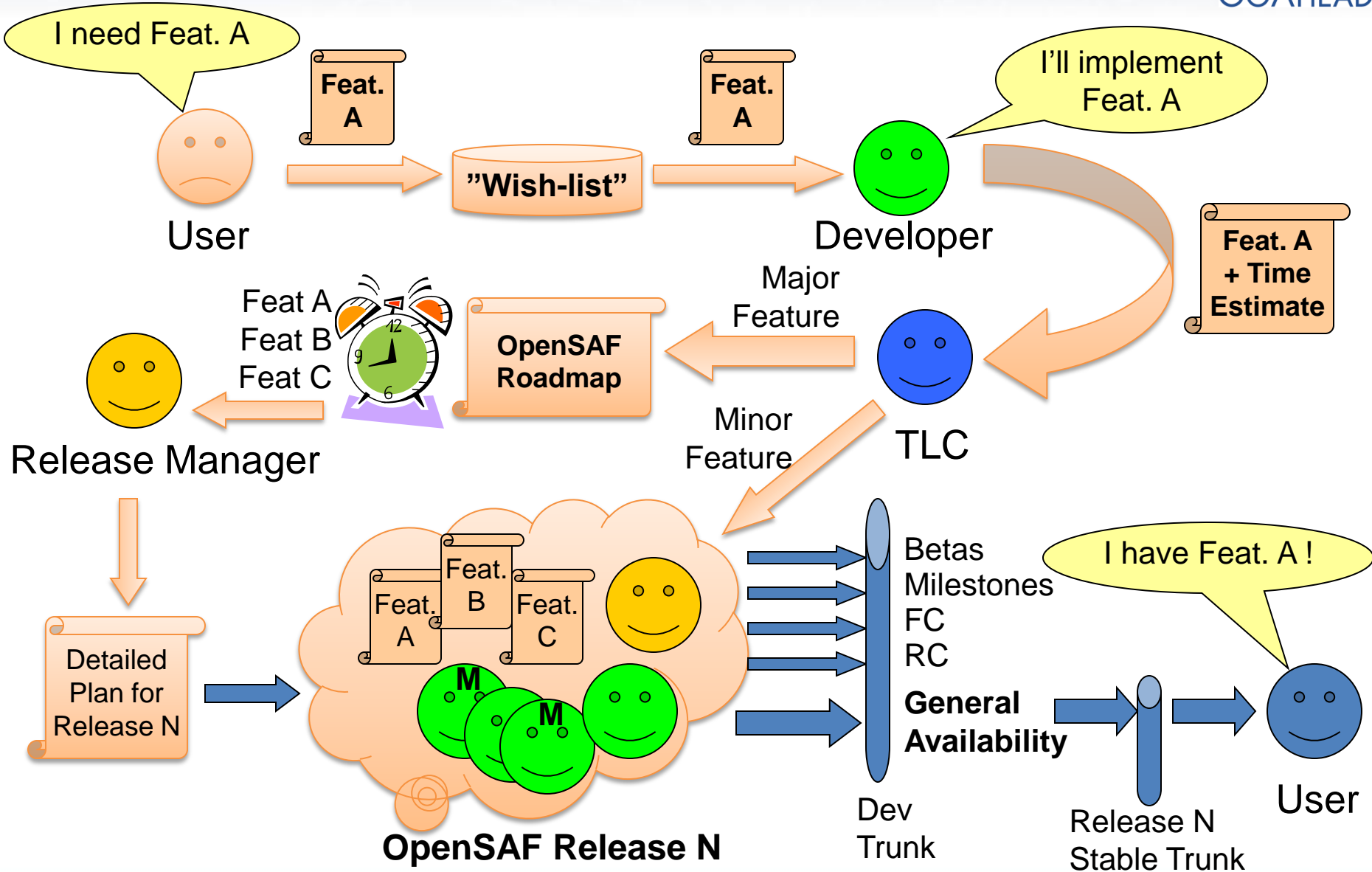# OpenSAF Project Roadmap

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Presentation Outline

- OpenSAF Roadmap Process.
- OpenSAF4.0 lookback.
- OpenSAF future Roadmap themes.

OpenSAF4.0 Lookback –Key Themes

- Modularity
  - Giving user the option of selecting required opensaf services at build time.
- Elimination of Proprietary interfaces
  - Standard configuration procedures (SAF defined imm.xml).
  - Elimination of proprietary services (SRMSv, MASv, IFSv, PSSv, CLI, Subagent).
  - Partitioning the OpenSAF infrastructure such a way it is only available to OpenSAF developer.
  - Updating sample applications to use only SAF defined interfaces.
  - Integration of all the OpenSAF services with IMM for retrieval of configuration information
- Scalability
  - Heart-beat elimination between AMF directors, Node Directors, and between directors.
  - Reducing the messaging between different service parts to fetch the configuration information, and use the IMM

- Completeness
  - OpenSAF4.0 provides all key SAF services implementation. With New feature additions of PLM, SMF and CLM rewrite.
- LSB Compliance
  - Major work done to compliant to LSB3.2. This is work in progress.
- Project restructuring
  - Re-organization of project in to Base middleware, tools for developer, echo system plug-ins from other opensource project (Like DRBD, LVM etc), Management clients.

- OpenSAF project taken a conscious decision to break inservice upgradeability to get major functionality in this Release.

OpenSAF Future Roadmap Themes

- To Increase Adoption

- SAF Features

- Architecture

- Usability & Maintainability

- Developer Tools

- Opensource echo system

To Increse Adoption

- Improve OS portability
- Support for Different transports
  - TIPC existing, TCP - Alternate
- Programming Language bindings
  - Java wrappers for OpenSAF core services
    - IMM, LOG, NTF
    - CLM, AMF – already exist.
  - Python

SAF Features

- AMF
    - Currently B.04.01 System Model is supported.
    - Selected B.04.01 features (API).
- IMM uplift, IMM schema upgrades for allowing application attributes.

- PLM
    - Virtualization, HE & EE health monitoring, multiple domain support.
    - missing dependencies
- NTF uplift
- SMF
    - API support, Rollback, Missing notifications

Architecture

- ALL SAF services integration with CLM and Notification
- Making the AMF monitoring for middleware services optional
- IMM cache domains
- Improved dynamic configuration
- Inservice upgradeability Support through version negotiation.

Usability & Maintainability

- Imrpoved Tracing
  - Should have common tracing format
  - Collect all trace files in to single directory
  - Reduce the number of Log files
- Full Doxygen based documentation
- Simplified configuration
  - Reduce the default configuration needed.

Developer tools

- Eclipse project for opensaf.

- Configuration files for the editors based on the opensaf coding guidelines (.vimrc, .emacs)

- Hg triggers to reject ill-formatted patches.

Open Source Ecosystem

- Integration with other popular Open Source projects
  - Asterisk
  - SIP stack.
  - DRBD
  - OpenLDAP
  - MySQL
  - WebServer (Apache)
- Working with Linux distributions to include OpenSAF

Thank You!