

RCS-Next Development Plan

GSG review for comment, 2nd October

RCS-Next Phasing & Scope

1

Single device & phone
number identities

Focus RCS-Next v1 on
the introduction of
RCS-Next transport with
Signal-based e2ee and
RCC.07 interworking

2

Multi-device &
identities

Focus RCS-Next v1.1 on
extending phase 1 to
support multi-device,
non-phone number
identities, new features

3

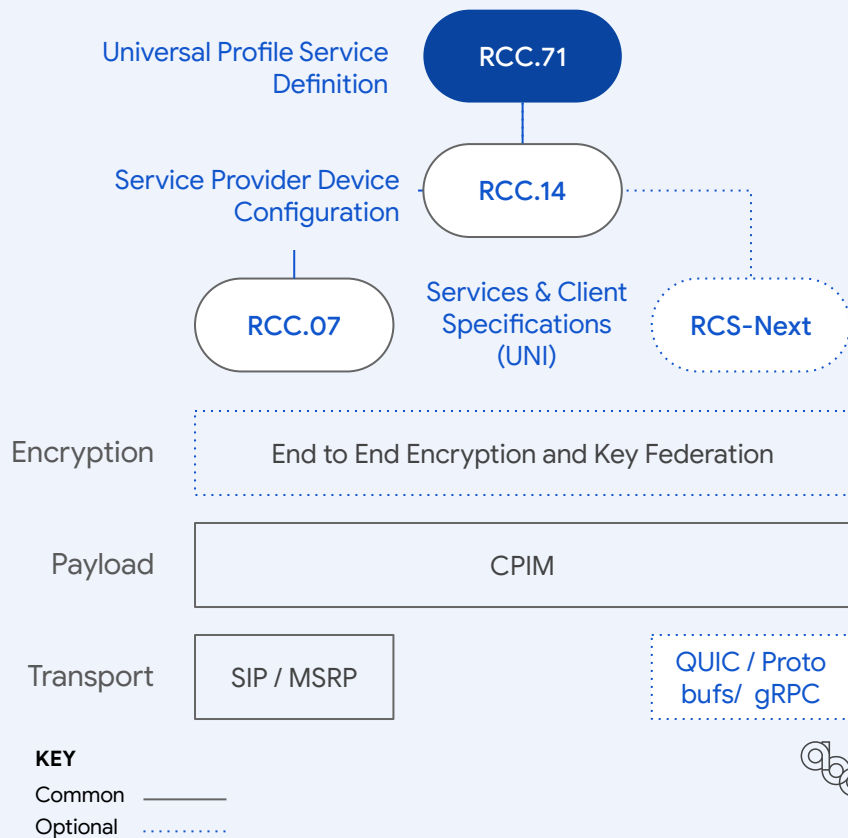
Simplified
interoperability
through MIMI
alignment

Focus RCS-Next 2.0 on
convergence with MIMI
payload, e2ee (MLS), NNI
standards to simplify
interoperability

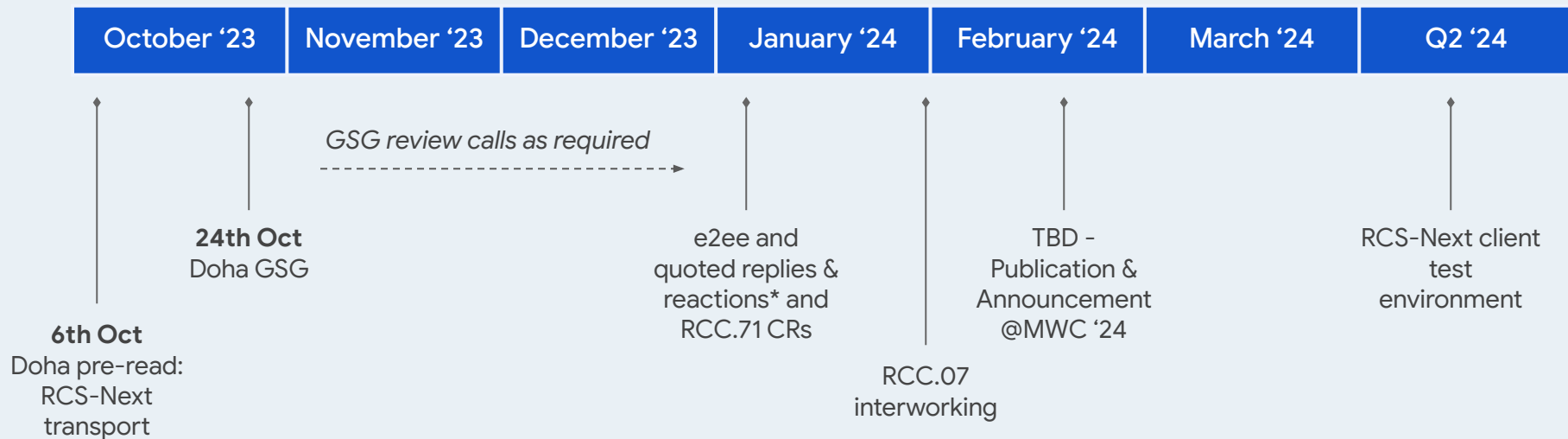
RCS-Next Specification Alignment

Summary:

- Common service definition
- Common device configuration protocol
- Common payload format
- Service provider-specific client-server protocol
- RCS-Next is an optional client-server transport
- e2ee is required for RCS-Next
- e2ee is conditional for RCC.07:
 - Where configured by the service provider, or,
 - Where there is agreed interworking with RCS-Next service providers.



Phase 1 timeline



* fulfilling RCC.71 Universal Profile requirements

Backup and what we have
shared so far

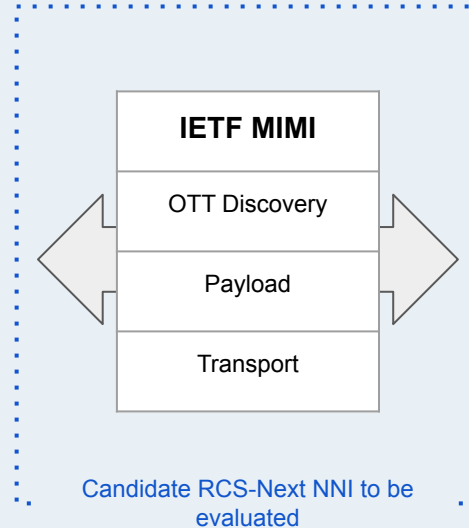
RCS-Next & Interoperability Specification Alignment with IETF

IETF MLS [RFC 9420] for End-to-End Encryption

GSMA RCS Specifications

Universal Profile Requirements RCC.71 Update

RCS device config RCC.14	Update RCC.14
UNI RCC.07	RCS-Next UNI API
	RCS-Next RCC.07 Interworking
Ecosystem Principles WA.09	Update WA.09
Fraud & Security FS.41	Update FS.41
RCS Interworking IR.90	RCS-Next IR.90 Interworking
E2E Test Spec RCC.17	RCS-Next Test Environment



OTT Messaging
Providers

* RCS-Next specification work items

RCS-Next Proposed Work Items

Work Item		Description	Owner	Due
1	Universal Profile Requirements RCC.71 Update	Google to evaluate pending CRs for 'reactions' and 'suggested' reply requirements and supporting RCC.07 and RCS-Next specs.	PDTF / GSMA	TBC
2	Service Provider Device Config [RCC.14 / 71]	Tighten security model and make TS.43 mandatory for carrier RCS services and SIM enabled devices.	GSG	TBC
3	RCS-Next UNI API Specification	RCS-Next API Specification comprising: gRPC methods, protocol buffer RCS schema and QUIC [RFC 9000] transport.	Google	Sept' 23
4	RCS-Next Interworking	RCS-Next Interworking Guidelines for RCC.07 and RCC.90	Google	TBC
5	RCS Ecosystem Principles [WA.09]	Update p2p principles: deprecate RCC.63, RCC.59, RCC.66 'pre-Universal Profile support', RCC.53 Device APIs and RCS MoU WA.08. Add appropriate references to RCS-Next as an alternative to RCC.07.	WAS	TBC
7	RCS Fraud & Security Assessment [FS.41]	Section 4.3, 'RCS P2P Traffic Control' needs updating to reflect p2p RCS-Next SIM based auth and e2ee. Separately, requires updating to reflect the current state of operations for RCS Business Messaging.	FASG	TBC
8	RCS-Next Test Environment	Google supported UNI and NNI test environment	Google	Q1 2024