

IAF / TECHNICAL ASSURANCE WORKBOOK

Connected Vehicle and Ecosystem Standard

Assessment checklist

SOURCE-REFERENCED / INTERACTIVE PDF

Working Draft 0.2
Technical review and pilot use; source adoption remains pending.

ORGANIZATION / CLIENT

ASSESSMENT REFERENCE

ASSESSMENT DATE / PERIOD

LEAD ASSESSOR / TEAM

SITE / LOCATION

ASSESSED OBJECT / SYSTEM / CONFIGURATION

ASSESSMENT PURPOSE AND CLAIMED SCOPE

455

check records

38

mapped sections

52

source pages

Scope, applicability & evidence rules

VEHICLE / COMPONENT / INFRASTRUCTURE / SERVICE SCOPE

BINDING PROFILES, INTERFACES AND CONFIGURATION REVISIONS

SENDER/RECEIVER MATRIX AND INDEPENDENT IMPLEMENTATIONS

CONNECTIVITY DOMAIN, GEOGRAPHY, LOAD AND TRAFFIC CONDITIONS

CRITICAL SERVICES, DEPENDENCIES AND FALLBACK STATES

SCENARIO CATALOGUE, METRICS AND STATISTICAL DECISION RULES

APPLICABILITY REGISTER / EXCLUSIONS / APPROVING REVIEWER

STANDARD-SPECIFIC ASSESSMENT RULE

Freeze binding profiles and the claimed sender/receiver matrix. Verify semantic, timing, reliability and failure-response evidence together. Connectivity evidence does not establish approval of complete braking, steering or automated-driving functions.

HOW TO COMPLETE EACH CHECK

Pass	All applicable source conditions are met by identified evidence.
Fail	An applicable requirement or required protective gate is not met.
Not demonstrated	Evidence is absent, incomplete, invalid or inconclusive; this is not a pass.
Not applicable	The trigger is absent and the rationale and reviewer are recorded.

Source schedules, methods and record templates are assessed for correct application. For adverse conditions, verify prevention or effective closure. Do not treat illustrative values as mandatory limits. No result is preselected and no overall result is calculated.

Requirement map

Checklist identifiers are workbook record numbers. Source clause numbers, native requirement IDs and PDF page references are preserved separately. Several records may address one source clause.

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Requirement map - continued

Checklist identifiers are workbook record numbers. Source clause numbers, native requirement IDs and PDF page references are preserved separately. Several records may address one source clause.

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Source control & use of the workbook

CONTROLLED SOURCE

IAF_CVES_First_Edition_Corporate(3).pdf

Working Draft 0.2

Source length: 52 pages. Checklist revision: 1.0, dated 15 September 2026.

SOURCE SHA-256

30171ae5f612f8c1e45e61775e0d99c8fe97e9c80028d8d4c6cf8791d88aab13

INTERPRETATION AND COVERAGE

This workbook reproduces source requirement text and source schedule entries as assessment criteria. Long clauses and schedules may have several separately numbered check records. A clause is not complete until every applicable record and required source condition has been dispositioned.

Read each record with its complete source clause, definitions, referenced methods, numerical rules and applicability conditions. The source document controls if an extraction, layout or interpretation issue is found. Record the discrepancy and resolve it before a positive conclusion.

Normative annexes in the source are included where applicable. Informative annexes are reading aids and do not independently create conformity obligations. Context-only main clauses and definitions without assessment duties are read with the requirements.

Assign responsibility for each applicable record in the controlled applicability register. Duties addressed to IAF or an assessment body must be reviewed against that role. They are not automatically duties of a manufacturer, operator or other applicant.

Record document/test IDs, revision, sample/configuration, measured result and limit where relevant. Explain every Fail, Not demonstrated and Not applicable result. Add a finding ID for any required action.

Text areas are sized for concise entries and limit input to reduce hidden content. Use the continuation sheet or an identified external evidence record for longer notes. Save a local copy, reopen it and check entered values before issuing the completed workbook.

Every Fail or unresolved critical gate requires the relevant scope to remain blocked. An observation is not a substitute for a failed requirement. A positive pilot conclusion is not certification, a product authorization or permission to use an IAF mark.

INFORMATIVE READING SUPPORT

Annex I, Annex J

Requirements & evidence

1 | Scope

CHECK 0001 | R01-01

Source p. 6

Scope

The applicant shall identify each assessed vehicle, component, infrastructure asset, service or ecosystem, its intended use and its integration boundary. The assessment shall include all external dependencies whose failure or misuse could invalidate the claimed connectivity outcome, even where those dependencies are operated by another party.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0002 | R01-02

Source p. 6

Scope

Scope shall address relevant vehicle-to-vehicle, vehicle-to-infrastructure, vehicle-to-vulnerable-road-user and vehicle-to-network interactions. It shall include roadside communications, cloud and edge processing, emergency integration, traffic management and smart city interfaces whenever these are implemented or claimed.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0003 | R01-03

Source p. 6

Scope

Passenger cars, motorcycles, buses, goods vehicles, special purpose vehicles, automated shuttles and retrofit devices may be assessed. The applicant shall specify vehicle categories, installation variants, operating speeds, road types, users and deployment markets rather than extrapolate a result between unlike categories.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0004 | R01-04

Source p. 6

Scope

An assessment shall distinguish connectivity assurance from approval of braking, steering, crashworthiness, charging electrical safety or an automated driving system as a whole. Where a connected input influences those functions, the interface, failure behaviour and allocation of assurance responsibilities shall be assessed; separate obligations for the complete function remain applicable.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0005 | R01-05

Source p. 6

Scope

Claims shall state the tested geography, profiles, services, configurations and operating conditions. A vehicle component result shall not be promoted as complete vehicle conformity. A connected city demonstration shall not be promoted as compatibility with every city, infrastructure operator or radio technology.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

2 | Application and interpretation

CHECK 0006 | R02-01

Source p. 6

Application and interpretation

The applicant and evaluator shall establish an applicability register before testing. Every requirement shall be marked applicable or not applicable, with a technical reason and a responsible reviewer. Lack of evidence, unavailable test equipment, outsourced operation or a failed test shall not justify a not applicable decision.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0007 | R02-02

Source p. 6

Application and interpretation

Clauses 1 to 7 and 25 to 30 shall apply to every assessment, interpreted at the assessed boundary. Requirements in Clauses 8 to 24 and Annexes A to H shall apply whenever the corresponding function, interface, dependency or claim exists. Absence of a function shall be disclosed and verified where its exclusion could mislead a user.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0008 | R02-03

Source p. 7

Application and interpretation

An implementation profile shall define all parameters necessary for repeatable evaluation. A stricter applicable legal obligation or application safety limit shall govern over a draft benchmark. A conflict that cannot be resolved shall stop the affected conformity decision and be recorded for technical disposition.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0009 | R02-04

Source p. 7

Application and interpretation

A requirement may be satisfied by an alternative technical design only where its stated outcome is preserved and equivalent or stronger evidence is demonstrated. The evaluator shall document the comparison, assumptions and limitations. An alternative shall not waive a mandatory failure response or silently relax a numerical limit.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0010 | R02-05

Source p. 7

Application and interpretation

Passing a pilot exercise shall be described as a pilot result against Working Draft 0.2. It shall not be labelled formal certification under an adopted IAF standard. Adoption, assessment authorisation and permissions to use any future mark are separate decisions.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0011 | R02-06

Source p. 7

Application and interpretation

Operational release shall require documented technical validation of the selected benchmarks, complete binding profiles and test vectors, approved test and decision methods, competent evaluation and decision arrangements, and formal adoption by the issuing body. The release record shall identify the applicable revisions and unresolved limitations. Until these conditions are met, results shall remain pilot results; Annex J supports the release work.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

3 | Terms and abbreviations

CHECK 0012 | 3

Source p. 7

Terms and abbreviations

The following meanings apply throughout this document. Operational profiles may add terms but shall not redefine the terms below in a way that changes their assurance meaning.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

4 | Assessment objects and application profiles

CHECK 0013 | 4 | part 1/6

Source p. 9

Assessment objects and application profiles

The result must identify what has actually been assessed. The following object codes are scope descriptions, not quality grades.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0014 | 4 | source schedule row | part 2/6

Source p. 9

V

Code: V

Object: Complete vehicle integration

Required boundary statement: Vehicle variant, installed hardware and software, external dependencies and enabled services

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0015 | 4 | source schedule row | part 3/6

Source p. 9

C

Code: C

Object: Component or retrofit device

Required boundary statement: Hardware and firmware, host assumptions, installation limits and required integration tests

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0016 | 4 | source schedule row | part 4/6

Source p. 9

I

Code: I

Object: Infrastructure

Required boundary statement: Site or asset family, installation geometry, controller interfaces, power and backhaul

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0017 | 4 | [source schedule row](#) | [part 5/6](#)

Source p. 9

S**Code:** S**Object:** Connected service**Required boundary statement:** Production release, service region, interfaces, providers and operating responsibility**RESULT****FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE****CHECK 0018** | 4 | [source schedule row](#) | [part 6/6](#)

Source p. 9

E**Code:** E**Object:** Ecosystem deployment**Required boundary statement:** Identified combination of vehicle, infrastructure and service configurations with operational agreements**RESULT****FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE****CHECK 0019** | [R04-01](#)

Source p. 9

Assessment objects and application profiles

The applicant shall select one or more object codes and the modules in Annex A. Every enabled safety-relevant connected function shall be included or explicitly isolated from the claim, with evidence that its exclusion does not undermine included functions.

RESULT**FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE****CHECK 0020** | [R04-02](#)

Source p. 9

Assessment objects and application profiles

Every claimed service shall have a service contract covering inputs, outputs, authoritative sources, message validity, timing, security, privacy, availability, foreseeable misuse, degraded behaviour and responsible parties. Annex A defines the minimum fields.

RESULT**FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

Requirements & evidence

CHECK 0021 | R04-03

Source p. 9

Assessment objects and application profiles

The connectivity operating domain shall include geography, road geometry, traffic density, speed, weather, visibility, radio conditions, positioning conditions, participating populations, network coverage and infrastructure maturity. Conditions that have not been demonstrated shall be disclosed as unverified.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0022 | R04-04

Source p. 10

Assessment objects and application profiles

Variant selection shall represent the worst credible combinations of antenna position, processor load, bodywork shielding, power condition, communication module, software branch and service provider. Claimed equivalence between variants shall be justified and reviewed before evidence is reused.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0023 | R04-05

Source p. 10

Assessment objects and application profiles

An ecosystem assessment shall allocate each interface to an owner and identify who resolves faults that cross organisational boundaries. A supplier statement alone shall not establish that the assembled system meets end-to-end requirements.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

5 | Governance and deployment obligations

CHECK 0024 | 5

Source p. 10

Governance and deployment obligations

Connected services distribute responsibility across organisations. The assurance case must show who can change, stop, restore and explain each part of the service.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0025 | R05-01

Source p. 10

Governance and deployment obligations

The applicant shall designate accountable owners for system safety, cybersecurity, personal data, service operation, software release and corrective action. Roles may be combined where competence and independence are maintained; conflicting approvals shall be assigned to a separate reviewer.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0026 | R05-02

Source p. 10

Governance and deployment obligations

A deployment obligations register shall identify the markets and duties applicable to radio use, vehicle operation, emergency interfaces, personal data, consumer information and infrastructure access. Evidence of relevant authorisations shall be retained in the assessment file. This document does not itself grant legal permission to deploy.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0027 | R05-03

Source p. 10

Governance and deployment obligations

Contracts between participating parties shall allocate incident reporting, outage notification, security patching, data handling, credential management, maintenance, evidence access and termination responsibilities. No essential responsibility shall remain assigned only to an undefined third party.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0028 | R05-04

Source p. 10

Governance and deployment obligations

Personnel performing configuration, security testing, traffic integration and decisions shall have documented competence. Evaluation personnel shall disclose interests and shall not assess their own unresolved design decisions without independent review.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0029 | R05-05

Source p. 10

Governance and deployment obligations

The applicant shall maintain a configuration controlled requirement register and a documented route for complaints, incident reports and correction requests. Changes to claimed capability shall be approved with a record of the evidence considered and the person responsible.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

6 | Risk and safety assurance

CHECK 0030 | R06-01

Source p. 10

Risk and safety assurance

The applicant shall analyse hazards from absent, delayed, duplicated, contradictory, mislocated and unauthorised information. The analysis shall include deliberate misuse, incorrect but validly signed data, nonparticipating road users, equipment faults and reasonably foreseeable user misunderstanding.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0031 | R06-02

Source p. 10

Risk and safety assurance

Each safety-relevant service shall allocate a complete time budget from source observation through detection, communication, validation, decision, human response where relevant and physical action. Margins shall address uncertainty, worst credible motion and processing contention. A generic communication threshold shall not replace this analysis.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0032 | R06-03

Source p. 11

Risk and safety assurance

Hazard controls shall distinguish prevention, detection, containment and fallback. A single remote message shall not directly authorise a safety-critical action without application specific validation, authority checks and a safety justification for the level of dependence placed on it.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0033 | R06-04

Source p. 11

Risk and safety assurance

The safety case shall examine common causes across redundant paths, including shared power, antennas, timing sources, credentials, software, network operators and backhaul. Two communication paths shall not be counted as independent merely because they have different logical names.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0034 | R06-05

Source p. 11

Risk and safety assurance

Residual risks, assumptions and operating restrictions shall be accepted by a designated competent owner before release. Open risks that can lead to an uncontrolled hazardous action shall block the affected claim. The hazard register shall link each control to tests and in service monitoring.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0035 | R06-06

Source p. 11

Risk and safety assurance

Fallback shall be evaluated in its traffic context. Loss of connectivity shall not automatically cause abrupt braking, an unsafe stop or transfer of responsibility to an unprepared user. The design shall show that the selected response can be executed within the available time and operating space.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

7 | Architecture and dependency control

CHECK 0036 | 7

Source p. 11

Architecture and dependency control

The architecture record shall enable an evaluator to follow a single service through all its sources, processing stages, interfaces and control decisions.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0037 | R07-01

Source p. 11

Architecture and dependency control

The applicant shall maintain diagrams of data flows, trust boundaries, control authority, physical connections and external dependencies. Every wireless, wired, diagnostic, maintenance and cloud interface shall have an owner, access policy and monitored failure state.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0038 | R07-02

Source p. 11

Architecture and dependency control

Safety-relevant processing and communications shall be protected from entertainment, advertising, unrelated analytics and passenger device workloads. Resource budgets shall cover processor time, memory, queues, storage, power, thermal limits and network capacity under concurrent peak activity.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0039 | R07-03

Source p. 11

Architecture and dependency control

Network or service discovery shall establish the identity and capability of a peer before enabling privileged functions. An available access point or reachable server shall not by itself establish a trusted service relationship.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0040 | R07-04

Source p. 11

Architecture and dependency control

Gateways shall enforce explicit message, command and data policies in both directions. Conversion between radio or application domains shall preserve source age, provenance, uncertainty and permission limits, and shall identify any transformation that changes the interpretation of information.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0041 | R07-05

Source p. 11

Architecture and dependency control

A dependency inventory shall record service endpoints, remote configuration sources, cryptographic services, maps, time sources, software packages and failure effects. Hidden reliance on an unavailable commercial account, expired subscription or discontinued backend shall be treated as a service limitation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

8 | Connectivity and radio performance

CHECK 0042 | R08-01

Source p. 11

Connectivity and radio performance

The binding profile shall identify the communication paths, modes, bands, channel settings, transmit constraints, antenna configurations, payload sizes and access assumptions used by each service. A service advertised as direct communication shall be tested without reliance on a wide area network.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0043 | R08-02

Source p. 12

Connectivity and radio performance

Installed performance shall be evaluated across line of sight and obstructed conditions, relevant distances and approach angles, changing speeds, dense traffic and representative interference. Antenna blockage by vehicles, trailers, loads, passengers or accessories shall be included where credible.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0044 | R08-03

Source p. 12

Connectivity and radio performance

Congestion control shall preserve a documented priority policy and prevent lower priority services from exhausting resources needed by safety-relevant services. Admission, rate limiting and shedding behaviour shall be demonstrated at the declared maximum load and during controlled overload.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0045 | R08-04

Source p. 12

Connectivity and radio performance

Multi path operation shall include duplicate detection, ordering, source age preservation and common cause analysis. Switching between direct, mobile, local wireless and satellite paths shall not silently change a service from real-time operation to delayed information.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0046 | R08-05

Source p. 12

Connectivity and radio performance

The equipment shall detect loss of an essential antenna, radio function or connection state where required by the hazard analysis. Detection and service status changes shall meet the allocated time budget, and a restored signal shall not immediately restore safety-relevant authority without health checks.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0047 | R08-06

Source p. 12

Connectivity and radio performance

Range claims shall state the measurement geometry, environment, traffic load, message type and timely delivery criterion. A best case maximum range shall not be represented as a guaranteed operating distance throughout the claimed domain.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

9 | Message meaning and interoperability

CHECK 0048 | 9

Source p. 12

Message meaning and interoperability

Interoperability requires agreement on meaning as well as successful receipt of bytes. The same location, signal state or warning must not lead to incompatible decisions across implementations.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0049 | R09-01

Source p. 12

Message meaning and interoperability

The binding profile shall freeze the message schema, encoding, versions, optional fields, units, coordinate frames, time base, precision, permitted ranges and unknown value representations. The evaluator shall have executable test vectors and expected decoded values for every claimed message type.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0050 | R09-02

Source p. 12

Message meaning and interoperability

Receivers shall validate message length, structure, permissions, freshness, physical plausibility and relevance before releasing data to an application. Unrecognised mandatory fields or incompatible versions shall cause a controlled rejection or explicitly limited operation, not a guessed interpretation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0051 | R09-03

Source p. 12

Message meaning and interoperability

A relay or gateway shall preserve the observation time and shall not make old data appear new by replacing its source timestamp with a forwarding timestamp. Derived information shall carry both the original observation provenance and the time of derivation where needed to interpret its validity.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0052 | R09-04

Source p. 12

Message meaning and interoperability

Interoperability testing shall exercise independent implementations and all claimed combinations of sender, receiver, infrastructure and service version. Bidirectional functions shall be tested in both directions. Shared source code or a common emulator shall be disclosed and shall not be treated as independent implementation diversity.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0053 | R09-05

Source p. 12

Message meaning and interoperability

Retries, acknowledgements, cancellation, replacement, sequence wraparound and duplicate suppression shall have deterministic semantics. Transactional actions shall prevent repeated execution following a timeout or reconnect. Broadcast services shall not be judged using an acknowledgement model they do not implement.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0054 | R09-06

Source p. 12

Message meaning and interoperability

The assessment shall include malformed, boundary, unsupported and contradictory inputs. No mandatory semantic test may fail while an interoperability claim remains positive, even if average delivery performance is high.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

10 | Time, positioning and information integrity

CHECK 0055 | 10

Source p. 13

Time, positioning and information integrity

Position and time errors can turn a technically correct message into an unsafe instruction. Declared accuracy must be supported by measured error distributions and a response to loss of integrity.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0056 | R10-01

Source p. 13

Time, positioning and information integrity

The profile shall define the time reference, timestamp precision, synchronisation method, permissible offset and response to uncertainty. Tests shall include clock drift, reset, discontinuity, rollover, delayed synchronisation and inconsistent time sources.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0057 | R10-02

Source p. 13

Time, positioning and information integrity

Position-related services shall specify coordinate reference, map version, vehicle reference point, orientation, lane association and uncertainty. Positioning performance shall be tested with independent ground truth in urban canyons, tunnels, junctions and other relevant conditions rather than inferred from a receiver specification.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0058 | R10-03

Source p. 13

Time, positioning and information integrity

Receivers shall reject or downgrade information when declared position or time uncertainty exceeds the application limit. Missing coordinates, unknown heading or invalid speed shall not be converted into plausible default values such as zero.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0059 | R10-04

Source p. 13

Time, positioning and information integrity

The applicant shall establish an integrity monitor for functions whose safety depends on bounded position or time error. The evidence shall cover detection time, missed detections, false alarms and protection against false confidence during spoofing, jamming or sensor disagreement.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0060 | R10-05

Source p. 13

Time, positioning and information integrity

Spatial relevance shall consider direction of travel, road level, lane geometry and event extent. A warning from an adjacent motorway, bridge, tunnel level or opposite carriageway shall not be presented as an instruction for the current path without a justified association.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0061 | R10-06

Source p. 13

Time, positioning and information integrity

Claims of lane level capability shall define the lane discrimination objective and allowable error for the intended geometry. No single accuracy number shall establish suitability for all lane widths, turning movements or road layouts.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0062 | R10-07

Source p. 13

Time, positioning and information integrity

The freshness policy shall define permissible clock uncertainty and future timestamp tolerance. A timestamp beyond that tolerance shall be rejected or quarantined. Negative measured age shall not be silently set to zero and treated as fresh information. Message age limits shall be evaluated with the uncertainty allowance specified in Annex B.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

11 | Identity, trust and cryptographic services

CHECK 0063 | R11-01

Source p. 13

Identity, trust and cryptographic services

The applicant shall define credential issuance, activation, renewal, revocation, expiry, recovery and retirement for devices, services, administrators and privileged roles. Private keys shall be protected against extraction and unauthorised use in a manner proportionate to their safety and security impact.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0064 | R11-02

Source p. 13

Identity, trust and cryptographic services

Authorisation shall bind a credential to permitted functions and contexts. A general vehicle credential shall not grant authority to request emergency priority, modify a traffic signal, issue a road closure or remotely control another vehicle.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0065 | R11-03

Source p. 13-14

Identity, trust and cryptographic services

The system shall verify the required identity chain and permissions, and shall define behaviour for expired, revoked, unknown or unreachable trust information. Offline operation shall have a bounded policy for cached trust state. Failure to contact a trust service shall not automatically authorise an otherwise untrusted action.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0066 | R11-04

Source p. 14

Identity, trust and cryptographic services

Pseudonym changes shall reduce routine linkability while preserving service continuity within its safety constraints. The design shall assess tracking through payload content, trajectory, network identifiers and certificate timing, rather than treating identifier rotation alone as anonymity.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0067 | R11-05

Source p. 14

Identity, trust and cryptographic services

Key compromise and mass credential invalidation shall be exercised. Revocation distribution capacity, detection delay, offline exposure, restoration and effects on legitimate participants shall be measured against the profile's declared limits.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0068 | R11-06

Source p. 14

Identity, trust and cryptographic services

The cryptographic inventory shall identify algorithms, parameters, keys, trust anchors and protection lifetimes. The design shall support controlled algorithm and trust anchor migration, with downgrade protection, mixed version testing and an explicit plan for information requiring long-term confidentiality.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

12 | Cybersecurity and misuse resistance

CHECK 0069 | 12

Source p. 14

Cybersecurity and misuse resistance

Security controls shall cover the complete path from vehicle and roadside hardware to service administration and remote operations.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0070 | R12-01

Source p. 14

Cybersecurity and misuse resistance

The applicant shall maintain a threat analysis covering remote access, local radio, maintenance ports, mobile applications, supply chain packages, cloud accounts, insiders and physical access. The analysis shall link attack consequences to service and vehicle hazards and to the protections required at each boundary.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0071 | R12-02

Source p. 14

Cybersecurity and misuse resistance

Systems shall enforce least privilege, separation of duties for high impact changes, authenticated administration and protected secrets. Default shared credentials shall not remain in deployed equipment. Remote privileged human access shall use multiple independent authentication factors or a documented and tested control providing equivalent protection. Diagnostic or maintenance access shall be time bounded and auditable where it can change assessed behaviour.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0072 | R12-03

Source p. 14

Cybersecurity and misuse resistance

Secure startup, software authenticity checks and runtime controls shall protect safety-relevant executable code and configuration. Failure of integrity checks shall enter a controlled recovery state and shall not silently boot unverified software with operational privileges.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0073 | R12-04

Source p. 14

Cybersecurity and misuse resistance

Security testing shall include parser robustness, access control, replay, resource exhaustion, credential misuse and isolation between domains. Tests shall use approved environments and authorised endpoints. Public traffic systems or emergency systems shall not be exposed to uncontrolled intrusive testing.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0074 | R12-05

Source p. 14

Cybersecurity and misuse resistance

The applicant shall maintain a vulnerability intake route, triage criteria, containment options and correction process throughout the declared support period. An exploitable issue with a credible path to uncontrolled safety-relevant action shall block release or trigger suspension of the affected capability until effective containment is verified.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0075 | R12-06

Source p. 14

Cybersecurity and misuse resistance

Misbehaviour detection shall distinguish valid identity from credible content and shall address false accusation. Reports shall preserve relevant evidence, minimise personal data and permit review. Automatic exclusion policies shall be tested against legitimate unusual behaviour and coordinated false reports.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0076 | R12-07

Source p. 14

Cybersecurity and misuse resistance

Security monitoring shall detect compromise without exhausting resources or degrading essential vehicle functions. Forensic records shall protect integrity, control access and preserve the time uncertainty needed to reconstruct event order.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

13 | Privacy and data governance

CHECK 0077 | 13

Source p. 15

Privacy and data governance

Connected mobility can reveal routes, identities and behaviour even when names are absent. Privacy controls must address the complete information flow and the people affected by it.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0078 | R13-01

Source p. 15

Privacy and data governance

The applicant shall map personal and potentially identifying data across collection, processing, transmission, storage, sharing and deletion. Purposes, authorised recipients, legal basis, retention limits and responsibility for each flow shall be documented before deployment.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0079 | R13-02

Source p. 15

Privacy and data governance

Safety communications shall contain no unnecessary persistent identifiers or sensitive occupant information. High frequency trajectories, device identifiers and combined datasets shall be assessed for reidentification and tracking risk. Pseudonymous data shall not be assumed anonymous.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0080 | R13-03

Source p. 15

Privacy and data governance

Optional analytics, advertising and secondary commercial uses shall be distinguishable from essential services. Users shall receive clear choices where required, and withdrawal from an optional purpose shall not silently disable unrelated safety functions.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0081 | R13-04

Source p. 15

Privacy and data governance

Ownership transfer, rental return, shared vehicle sessions and account deletion shall revoke prior access and remove or segregate personal data. Tests shall demonstrate that a former user cannot retrieve subsequent location, cabin data or remote control privileges.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0082 | R13-05

Source p. 15

Privacy and data governance

Cross-border data routes and service migrations shall preserve the applicable privacy controls. Access requests, corrections, deletion obligations and authorised preservation for incidents shall have auditable workflows. Evidence retention shall be reconciled with minimisation and legal retention duties.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0083 | R13-06

Source p. 15

Privacy and data governance

Cabin sensing, child-related information, health indicators and emergency disclosures shall receive a dedicated necessity and access review when present. Continuous recording shall not be the default substitute for a targeted event record where the narrower record can meet the purpose.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

14 | Vehicle-to-vehicle safety services

CHECK 0084 | 14

Source p. 15

Vehicle-to-vehicle safety services

V2V services shall be assessed at the receiving application, including the conditions under which warnings or assistance are withheld.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0085 | R14-01

Source p. 15

Vehicle-to-vehicle safety services

Every claimed V2V use case shall define its triggering conditions, required information, affected road users, action deadline and cancellation logic. At minimum, the applicability review shall consider abrupt deceleration, stationary vehicles, queues, intersection conflicts, wrong way movement, lane changes and approaching emergency vehicles.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0086 | R14-02

Source p. 15

Vehicle-to-vehicle safety services

Tests shall include participating and nonparticipating vehicles, unequal equipment capability, mixed vehicle sizes and occlusion. Lack of a connected message shall not be interpreted as evidence that a road, lane or conflict region is clear.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0087 | R14-03

Source p. 15

Vehicle-to-vehicle safety services

The receiving application shall assess path relevance and message credibility before issuing a warning or influencing control. A message from a stopped vehicle on another road level, a parked vehicle or a road user outside the conflict area shall be tested for inappropriate activation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0088 | R14-04

Source p. 15

Vehicle-to-vehicle safety services

Repeated, stale or contradictory events shall not create an uncontrolled warning cascade. Suppression, escalation and cancellation shall be deterministic and shall preserve time critical warnings where the hazard remains present.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0089 | R14-05

Source p. 16

Vehicle-to-vehicle safety services

Performance reporting shall include timely correct activations, missed activations, unnecessary activations, cancellation delay and behaviour when information is unavailable. Network delivery percentages shall be reported separately from application effectiveness.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0090 | R14-06

Source p. 16

Vehicle-to-vehicle safety services

A claim that connectivity prevents collisions or improves safety by a quantified amount shall require an appropriate study design and outcome evidence beyond communication tests. Simulated or predicted benefits shall be identified as such.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

15 | Infrastructure, traffic and smart city integration

CHECK 0091 | 15

Source p. 16

Infrastructure, traffic and smart city integration

Smart city compatibility shall be expressed as demonstrated interfaces and services within identified deployments.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0092 | R15-01

Source p. 16

Infrastructure, traffic and smart city integration

The infrastructure module shall cover applicable signal status, intersection geometry, speed and lane restrictions, roadworks, closures, reversible lanes, parking, road weather and traffic priority services. The profile shall identify which source has authority to issue, amend and cancel each information type.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0093 | R15-02

Source p. 16

Infrastructure, traffic and smart city integration

Signal messages shall be bound to the correct controller, intersection, approach and movement. Tests shall include adaptive timing, inconsistent map and signal versions, controller restart, maintenance mode and loss of synchronisation. A received permissive state shall not authorise ignoring physical signals or unresolved conflicts.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0094 | R15-03

Source p. 16

Infrastructure, traffic and smart city integration

Priority and preemption requests shall have separate permission rules, validity periods and audit trails. A legitimate request shall not be treated as a guarantee that priority has been granted. The vehicle shall verify the current response and act within its own safety obligations.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0095 | R15-04

Source p. 16

Infrastructure, traffic and smart city integration

Roadside installation records shall include asset identity, antenna orientation, surveyed geometry, controller connection, power protection, environmental limits and maintenance access. Moving or replacing an RSU shall trigger configuration and relevance checks before service restoration.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0096 | R15-05

Source p. 16

Infrastructure, traffic and smart city integration

City and corridor interfaces shall define data provenance, update frequency, expiry, conflict handling and service health. Map changes and temporary restrictions shall include effective times and cancellation paths that prevent obsolete instructions from remaining active.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0097 | R15-06

Source p. 16

Infrastructure, traffic and smart city integration

Connected tolling, parking, charging discovery and multimodal services shall separate commercial transactions from safety authority. Payment failure shall not create an unsafe vehicle command. Transaction reconciliation shall address duplicate charges and interrupted sessions where these services are in scope.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0098 | R15-07

Source p. 16

Infrastructure, traffic and smart city integration

Claims across municipalities, road operators or borders shall be supported by the profile and interoperability matrix for each claimed combination. Unavailable city interfaces shall be disclosed without treating a generic API demonstration as actual deployment acceptance.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

16 | Vulnerable road users and inclusive participation

CHECK 0099 | 16

Source p. 16

Vulnerable road users and inclusive participation

Connected safety must account for people who carry no device and people whose devices provide inaccurate or incomplete information.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0100 | R16-01

Source p. 16

Vulnerable road users and inclusive participation

The VRU module shall define the supported user groups, device types, carrying positions, motion patterns and operating environments. Evaluation shall include walking, cycling, crossing, stationary users, mobility aids and groups where relevant to the claim.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0101 | R16-02

Source p. 17

Vulnerable road users and inclusive participation

No device signal shall be required for a person to be considered a potential road user by the vehicle's overall safety concept. Absence of a VRU transmission shall not be displayed or interpreted as absence of people.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0102 | R16-03

Source p. 17

Vulnerable road users and inclusive participation

Tests shall address pocket and bag placement, body shielding, low battery, denied permissions, suspended applications, intermittent connectivity and inaccurate positioning. Shared devices and multiple devices carried by one person shall be considered in duplicate and identity handling.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0103 | R16-04

Source p. 17

Vulnerable road users and inclusive participation

Warning effectiveness shall be evaluated against relevant user characteristics, including hearing, vision, language and mobility limitations. Unsafe reliance on a person reading a small screen or reacting within an unvalidated time shall not support a positive safety claim.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0104 | R16-05

Source p. 17

Vulnerable road users and inclusive participation

Privacy evaluation shall address persistent observation of children, pedestrians and other noncustomers. Infrastructure sensing and object sharing shall minimise identifying details and shall prevent an object identifier from unnecessarily becoming a long-term tracking identifier.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

17 | Emergency and incident integration

CHECK 0105 | 17

Source p. 17

Emergency and incident integration

Emergency integration shall distinguish a locally generated event, successful communication and acceptance by the responsible responder. These are separate outcomes.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0106 | R17-01

Source p. 17

Emergency and incident integration

The emergency service contract shall define manual and automatic triggers, location data, minimum event data, routing, acknowledgements, voice or accessible alternatives where provided, retry rules, cancellation and fallback. The user shall be informed when delivery or acceptance has not been confirmed.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0107 | R17-02

Source p. 17

Emergency and incident integration

End-to-end tests shall use authorised test endpoints that represent the receiving service. An acknowledged test receiver shall not be presented as proof of operational responder integration unless the operational interface and acceptance arrangements are also evidenced.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0108 | R17-03

Source p. 17

Emergency and incident integration

Tests shall include primary power loss, damaged or blocked antenna conditions, poor location, network rejection, duplicate triggers and roaming. Backup power capability shall be measured over the declared temperature range and end of life capacity assumptions.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0109 | R17-04

Source p. 17

Emergency and incident integration

Emergency data shall be limited to what is needed for the defined response. The system shall prevent fabricated emergency authority, unauthorised priority requests and disclosure to an unverified recipient. Legitimate emergency access shall have a traceable permission model.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0110 | R17-05

Source p. 17

Emergency and incident integration

Coordinated response services shall define roles for traffic management, roadside assistance and emergency responders. No single delivery acknowledgement shall imply that all participating organisations have received the event or begun action.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0111 | R17-06

Source p. 17

Emergency and incident integration

A disaster or congestion mode shall prioritise essential information, limit retry storms and state the services still available. Satellite or alternative paths shall be labelled according to their demonstrated latency, coverage and receiving endpoint capability.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0112 | R17-07

Source p. 17

Emergency and incident integration

Emergency acceptance criteria shall identify each required outcome, including data receipt, event acceptance and any required voice or accessible communication channel. Partial success shall be reported as partial success. A data acknowledgement alone shall not pass a service contract that also requires another outcome.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

18 | Cloud, edge, network and service interfaces

CHECK 0113 | R18-01

Source p. 18

Cloud, edge, network and service interfaces

Service APIs shall have versioned contracts for authentication, authorisation, payload semantics, errors, rate limits, retries, timeouts and compatibility. Input validation shall apply equally to internal and external producers.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0114 | R18-02

Source p. 18

Cloud, edge, network and service interfaces

Service deployment shall control isolation between tenants, vehicles and regions. Tests shall include wrong vehicle identifiers, stale sessions, unauthorised fleet access and cross tenant data requests. A valid account shall not provide access to every vehicle associated with a service provider. Object-level permissions shall be checked on every protected request, including requests that use a substituted vehicle or tenant identifier.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0115 | R18-03

Source p. 18

Cloud, edge, network and service interfaces

Edge relocation, mobile network handover and backend failover shall preserve session authority, event ordering and data age. Tasks that cannot finish before their deadline shall be cancelled or downgraded rather than delivered as if still actionable.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0116 | R18-04

Source p. 18

Cloud, edge, network and service interfaces

The operator shall maintain end-to-end health monitoring that distinguishes network reachability, server response and usable application output. A successful health page response shall not alone establish that a safety-relevant service is available.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0117 | R18-05

Source p. 18

Cloud, edge, network and service interfaces

Remote actions such as unlock, start, immobilisation or configuration changes shall verify user authority, vehicle identity and current operating state. Delayed or duplicated commands shall not execute outside their permitted context. Where movement may be affected, the vehicle shall enforce a local safety boundary.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0118 | R18-06

Source p. 18

Cloud, edge, network and service interfaces

Recovery shall address corrupted databases, stale replicas, loss of a region, expired credentials and unavailable dependencies. Backup restoration shall be tested for correctness and age of restored state, not merely successful server startup.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

19 | Cooperative perception, manoeuvres and remote assistance

CHECK 0119 | R19-01

Source p. 18

Cooperative perception, manoeuvres and remote assistance

Shared perception shall communicate relevant observation time, sensor or source provenance, coordinate frame, uncertainty and object lifecycle. Receivers shall account for duplicate observations and correlated sources before combining confidence values.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0120 | R19-02

Source p. 18

Cooperative perception, manoeuvres and remote assistance

Cooperative perception tests shall include occlusion, false objects, missed objects, inconsistent classifications, delayed tracks and coordinate errors. The application shall avoid treating several relayed copies of one observation as independent evidence.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0121 | R19-03

Source p. 18

Cooperative perception, manoeuvres and remote assistance

Manoeuvre coordination shall define request, negotiation, commitment, expiry, cancellation and abort states, including the behaviour of each participant. Missing acknowledgement, changed capability or lost contact shall not leave incompatible commitments active.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0122 | R19-04

Source p. 19

Cooperative perception, manoeuvres and remote assistance

Platooning and coordinated motion claims shall establish limits for spacing, speed, vehicle dynamics, membership changes and communication loss. Timing and reliability requirements shall be derived from the actual control and safety analysis. Generic draft communication values in Annex B shall not qualify a closed loop control function.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0123 | R19-05

Source p. 19

Cooperative perception, manoeuvres and remote assistance

Remote assistance shall be distinguished from remote driving. The profile shall define whether a remote party supplies advice, route permission or continuous control, and shall state local vehicle authority, operator competence, sensory coverage, command freshness and takeover limits.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0124 | R19-06

Source p. 19

Cooperative perception, manoeuvres and remote assistance

Remote control shall cease to authorise new motion commands when its freshness, identity or situational information exceeds declared limits. Recovery from a disconnected session shall require revalidation of current context and shall not execute buffered movement commands.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0125 | R19-07

Source p. 19

Cooperative perception, manoeuvres and remote assistance

A remotely supported automated vehicle shall demonstrate a safe response to loss of the operator, video stream, network and backend individually and in common cause combinations. A theoretical network service level shall not establish the safety of the complete remote operation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

20 | Human interaction, accessibility and service transparency

CHECK 0126 | R20-01

Source p. 19

Human interaction, accessibility and service transparency

The user interface shall distinguish available, degraded, unavailable, unverified and disabled service states when that distinction affects safe use. It shall avoid presenting signal strength as proof that every connected safety service is functioning.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0127 | R20-02

Source p. 19

Human interaction, accessibility and service transparency

Warnings shall convey the relevant action or hazard without requiring unnecessary interpretation during driving. Competing notifications, repeated alerts, nuisance warnings and cancellation behaviour shall be evaluated under representative workload.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0128 | R20-03

Source p. 19

Human interaction, accessibility and service transparency

The applicant shall conduct user evaluation for safety-relevant interactions using representative participants and tasks. Recruitment, sample justification, response measures, errors and foreseeable misunderstanding shall be documented. A small convenience sample shall not justify broad population claims.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0129 | R20-04

Source p. 19

Human interaction, accessibility and service transparency

Essential status and warnings shall use accessible combinations of visual, audible or tactile means as appropriate. Localisation shall preserve meaning, urgency, units and road context. The design shall address users unfamiliar with the local language where the claim includes cross-border use.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0130 | R20-05

Source p. 19

Human interaction, accessibility and service transparency

Setup, subscription and privacy choices shall explain what capabilities depend on external coverage, infrastructure or payment. Users shall receive clear notice of service withdrawal or reduced support that affects a purchased or safety-relevant function.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0131 | R20-06

Source p. 19

Human interaction, accessibility and service transparency

Health monitoring or fatigue inference may be included only when implemented and separately validated for its declared use. This document does not establish a clinical diagnosis, cabin ergonomics certification or general wellbeing rating.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

21 | Software, configuration and supply chain integrity

CHECK 0132 | R21-01

Source p. 20

Software, configuration and supply chain integrity

The applicant shall maintain an inventory of hardware, software, libraries, models, calibration and configuration for every assessed function. The inventory shall identify supplier, version, integrity identifier, relevant dependencies and support status.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0133 | R21-02

Source p. 20

Software, configuration and supply chain integrity

Build and release processes shall protect source, build inputs, signing keys and release approval. Reproducibility or equivalent traceability shall permit the evaluator to link the installed image to the reviewed release and test evidence.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0134 | R21-03

Source p. 20

Software, configuration and supply chain integrity

Updates shall verify authenticity, integrity, target compatibility, prerequisites and installation conditions. Tests shall include interrupted download, interrupted installation, insufficient power, corrupted packages, incompatible dependencies and attempted installation of unauthorised older software.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0135 | R21-04

Source p. 20

Software, configuration and supply chain integrity

Recovery shall return the system to a known authorised state or a defined restricted state. A rollback shall not silently restore a known exploitable vulnerability. Where rollback is unsafe, the release plan shall provide another recoverable means to maintain essential functions.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0136 | R21-05

Source p. 20

Software, configuration and supply chain integrity

Deployment shall use staged exposure, health checks and stop criteria proportionate to risk. The operator shall be able to identify the affected population and halt distribution when a defect or adverse trend is detected.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0137 | R21-06

Source p. 20

Software, configuration and supply chain integrity

Every change shall receive an impact assessment against the claim, profile, hazards and evidence. Changes to timing, message semantics, radio configuration, trust policy, safety logic, data handling or AI behaviour shall trigger the relevant regression tests and decision review under Annex G.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0138 | R21-07

Source p. 20

Software, configuration and supply chain integrity

Supplier discontinuation, compromised packages and unavailable source or keys shall have an exit and recovery plan. Replacement components shall undergo integration checks; a nominally equivalent part number shall not automatically preserve assessed connectivity performance.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

22 | Lifecycle, service continuity and retirement

CHECK 0139 | 22

Source p. 20

Lifecycle, service continuity and retirement

Vehicle service life may exceed the life of a network generation, cloud service or commercial relationship. The applicant must make those dependencies visible and manageable.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0140 | R22-01

Source p. 20

Lifecycle, service continuity and retirement

Before deployment, the applicant shall declare the support period, its start basis, supported functions, update responsibilities and limitations. The declaration shall distinguish vehicle life, software support, network access and subscription entitlement.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0141 | R22-02

Source p. 20

Lifecycle, service continuity and retirement

A continuity plan shall address network retirement, provider failure, expired service agreements, trust anchor replacement, account loss and business closure. Essential safety behaviour shall remain controlled when a commercial service ends.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0142 | R22-03

Source p. 20

Lifecycle, service continuity and retirement

Maintenance instructions shall include antenna and cable checks, configuration validation, credential servicing, diagnostics and requalification after repair. The system shall detect or record modifications that can invalidate the assessed installation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0143 | R22-04

Source p. 20

Lifecycle, service continuity and retirement

Ownership transfer and resale shall preserve supported safety functions where contractually provided and clearly state which services require reactivation. Previous owners, fleet accounts and repair tools shall lose permissions no longer justified.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0144 | R22-05

Source p. 21

Lifecycle, service continuity and retirement

Retirement shall revoke credentials, disable remote authority, erase or retain data according to documented duties and update the status of the assessment record. Decommissioned roadside equipment shall not continue to broadcast apparently valid traffic information.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0145 | R22-06

Source p. 21

Lifecycle, service continuity and retirement

Notifications of material service withdrawal shall be early enough for a safe transition under the deployment obligations and contractual commitments. The applicant shall document the notice period and mitigation instead of implying indefinite connectivity.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

23 | Performance, reliability and resilience

CHECK 0146 | 23

Source p. 21

Performance, reliability and resilience

Performance claims shall use complete measurement boundaries and realistic load. Good average performance cannot conceal deadline failures or loss of service in a critical scenario.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0147 | R23-01

Source p. 21

Performance, reliability and resilience

Each service shall declare limits for relevant latency, age of information, timely valid delivery, availability, continuity, recovery time and data integrity. Safety-relevant services shall also specify failure detection and fallback deadlines. Annex B supplies measurement definitions and draft reference values.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0148 | R23-02

Source p. 21

Performance, reliability and resilience

Measurements shall include full enabled security processing, production message sizes, certificate lifecycle activity, diagnostic loads and competing traffic. Disabling security or reducing the payload to improve performance shall invalidate comparison with the production claim.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0149 | R23-03

Source p. 21

Performance, reliability and resilience

The evaluator shall measure distributions and tail behaviour by scenario, route, condition and implementation pair. Results shall include missing, late, rejected and duplicated messages. Reporting latency only for the successfully received subset shall be labelled conditional and accompanied by the total eligible opportunity count.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0150 | R23-04

Source p. 21

Performance, reliability and resilience

Resilience tests shall include burst loss, prolonged outage, handover failure, severe congestion, backend failure, trust service outage, loss of time reference and restoration. The system shall maintain the declared safety boundary throughout degradation and recovery.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0151 | R23-05

Source p. 21

Performance, reliability and resilience

Availability shall be computed over eligible demand time with an exclusion policy fixed before observation. Unplanned outages and failures inside the claimed domain shall remain in the denominator. Planned maintenance shall be reported separately and shall not disappear from a continuous availability claim.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0152 | R23-06

Source p. 21

Performance, reliability and resilience

Redundancy claims shall identify independent failure assumptions and quantify the residual common cause exposure. A fallback service with different capabilities shall be reported as degraded operation rather than full availability.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0153 | R23-07

Source p. 21

Performance, reliability and resilience

The operator shall monitor service indicators at a frequency capable of detecting material loss of the claimed capability. Monitoring gaps, missing probes and unobserved regions shall be reported, not treated as successful operation.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

24 | Physical environment, energy and resource use

CHECK 0154 | 24

Source p. 21

Physical environment, energy and resource use

The connected function shall remain controlled under its installation environment and shall account for the resources needed to deliver its benefits.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0155 | R24-01

Source p. 22

Physical environment, energy and resource use

Environmental qualification shall cover the declared temperature, humidity, vibration, shock, ingress, corrosion, power variation and electromagnetic environment of each installation. Applicable test severities shall be specified in the binding profile with an installation and risk rationale.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0156 | R24-02

Source p. 22

Physical environment, energy and resource use

Functional communication checks shall be performed before, during where feasible and after environmental exposure. A physically intact enclosure shall not establish that timing, sensitivity, positioning or trust storage remains within requirements.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0157 | R24-03

Source p. 22

Physical environment, energy and resource use

Power management shall protect vehicle startup, essential functions and any declared emergency reserve. Sleep, wakeup, low battery, repeated reconnect and failed update behaviour shall be evaluated for battery drain and missed service availability.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0158 | R24-04

Source p. 22

Physical environment, energy and resource use

Energy and resource claims shall specify measurement boundaries, service workload and comparison baseline. Vehicle energy, roadside power, network processing and backend use shall not be selectively omitted where the claim describes an ecosystem benefit.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0159 | R24-05

Source p. 22

Physical environment, energy and resource use

The design should support repair, replacement and continued compatibility of connectivity equipment. Where hardware replacement is needed for network or cryptographic migration, the applicant shall describe the installation, data and requalification implications.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0160 | R24-06

Source p. 22

Physical environment, energy and resource use

A claim of reduced congestion, emissions or energy consumption shall disclose the study conditions, counterfactual baseline and uncertainty. Communication conformance alone shall not be treated as evidence of an environmental improvement.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

25 | Verification and validation programme

CHECK 0161 | R25-01

Source p. 22

Verification and validation programme

Before testing, the evaluator shall approve the scope, frozen profile, hazard based scenario selection, acceptance limits, instrumentation, sampling plan and stop criteria. Acceptance criteria shall not be chosen after observing the results.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0162 | R25-02

Source p. 22

Verification and validation programme

The programme shall include design review, bench testing, software or hardware simulation where justified, controlled track or site testing and field observation appropriate to the claim. Simulation shall be validated against relevant physical measurements and its gaps shall be stated.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0163 | R25-03

Source p. 22

Verification and validation programme

The scenario catalogue in Annex C shall be screened in full. Applicable scenario families shall be selected with a documented risk and coverage rationale. Omitted cases shall identify the absent function or domain condition; difficult or unfavourable cases shall not be excluded to improve a result.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0164 | R25-04

Source p. 22

Verification and validation programme

Instrumentation shall have sufficient accuracy, synchronisation and sampling rate for the decision limits. Calibration, configuration, uncertainty and data loss shall be recorded. Test tools shall be verified against known inputs and expected outputs before use.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0165 | R25-05

Source p. 22

Verification and validation programme

Controlled fault injection shall establish degraded and recovery behaviour before road observation of safety-relevant services. Road tests shall use authorised conditions and competent personnel. Unsafe failures shall be explored by simulation, bench or closed site methods instead of exposing the public.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0166 | R25-06

Source p. 22-23

Verification and validation programme

Independent interoperability shall include at least two counterpart implementations developed independently of the assessed implementation and of one another for each claimed interface role, unless fewer exist. If fewer exist, the evidence limitation shall block a broad multi-vendor claim and confine the result to the named tested configuration.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0167 | R25-07

Source p. 23

Verification and validation programme

Tests shall be repeatable from retained setup records, version identifiers and data. An evaluator shall record deviations, invalid runs and retests with reasons. A failed valid run shall remain visible after a later successful retest.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0168 | R25-08

Source p. 23

Verification and validation programme

The verification matrix shall cover both communication delivery and the complete claimed application outcome. It shall also route applicable physical, environmental, power, privacy and human interaction requirements to appropriate tests or objective evidence. The method cards in Annex C establish a minimum method set and shall be extended where a requirement is not adequately covered.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

26 | Evidence, measurement and decision uncertainty

CHECK 0169 | 26

Source p. 23

Evidence, measurement and decision uncertainty

Evidence shall support the exact claim and shall allow another competent reviewer to understand the measurement and its limits.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0170 | R26-01

Source p. 23

Evidence, measurement and decision uncertainty

Each applicable requirement shall link to objective evidence, an acceptance criterion, a result, a reviewer and the assessed configuration. Absence of evidence shall be recorded as not demonstrated, not pass.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0171 | R26-02

Source p. 23

Evidence, measurement and decision uncertainty

Every quantitative result shall state the unit, measurement endpoints, sample population, test conditions, estimator, uncertainty and acceptance rule. The report shall separate raw observations, statistical estimates, modelled values and engineering judgements.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0172 | R26-03

Source p. 23

Evidence, measurement and decision uncertainty

One sided confidence limits shall be used for success rate claims as specified in Annex B. Correlation between messages, runs or route segments shall be addressed through independent blocks or a justified clustered analysis. A large number of messages in one journey shall not automatically establish a large independent sample.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0173 | R26-04

Source p. 23

Evidence, measurement and decision uncertainty

For an upper limit, conformity shall require the relevant upper uncertainty bound to remain at or below that limit. For a lower limit, the lower bound shall remain at or above it. An overlapping decision interval shall be reported as inconclusive unless a predeclared, justified decision rule resolves it.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0174 | R26-05

Source p. 23

Evidence, measurement and decision uncertainty

The evidence package shall preserve raw data integrity, tool versions, transformations, exclusions and chain of custody. Reanalysis shall be reproducible. Access restrictions needed for security or privacy shall not prevent authorised technical review.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0175 | R26-06

Source p. 23

Evidence, measurement and decision uncertainty

Confidential implementation details may be retained in a controlled annex to the assessment file. Public summaries shall accurately describe scope and limitations without exposing secrets, personal data or exploit details.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0176 | R26-07

Source p. 23

Evidence, measurement and decision uncertainty

The sampling plan shall predeclare sample size or a statistically justified sequential stopping rule, analysis populations and treatment of multiple comparisons. Testing shall not stop solely because a favourable confidence bound first appears. Repeated analyses shall control the declared error rate, and additional testing after a failure shall follow a documented correction and retest plan.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

27 | Conformity evaluation and decision rules

CHECK 0177 | R27-01

Source p. 24

Conformity evaluation and decision rules

Each applicable provision shall receive pass, fail, inconclusive or not assessed status. Not applicable shall be used only under Clause 2. A positive decision shall require all applicable mandatory provisions to pass and all required evidence to be available.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0178 | R27-02

Source p. 24

Conformity evaluation and decision rules

Critical and major nonconformities shall block a positive decision. Minor nonconformities shall be corrected and verified before a positive decision under this draft's proposed scheme. An improvement recommendation that does not identify an unmet requirement shall be recorded separately.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0179 | R27-03

Source p. 24

Conformity evaluation and decision rules

The applicant shall analyse the cause and extent of each nonconformity, implement correction and provide regression evidence. Repeating only the successful portion of a failed scenario shall not close the finding.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0180 | R27-04

Source p. 24

Conformity evaluation and decision rules

The decision authority shall be separate from the applicant and independent of the work being judged. It shall review applicability, evidence sufficiency, unresolved findings, competence and claim wording before issuing a decision.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0181 | R27-05

Source p. 24

Conformity evaluation and decision rules

Annex D defines the decision workflow and evidence descriptors. No total score, optional feature count or commercial status shall compensate for a failed mandatory requirement. Comparisons shall use like profiles, domains and evidence types.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0182 | R27-06

Source p. 24

Conformity evaluation and decision rules

Appeals shall be reviewed by a competent person who was not responsible for the disputed decision. New evidence or interpretation shall be documented; the applicant shall not receive permission to conceal a material failed result while an appeal is pending.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

28 | Public claims and the connectivity assurance record

CHECK 0183 | 28

Source p. 24

Public claims and the connectivity assurance record

A concise public record shall make the assessment useful without implying capabilities that were not evaluated.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0184 | R28-01

Source p. 24

Public claims and the connectivity assurance record

Every published result shall identify designation, edition, object, configuration baseline, assessed modules, binding profile, operating domain, evaluation date, decision status, decision authority and material limitations. Annex F defines the minimum record.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0185 | R28-02

Source p. 24

Public claims and the connectivity assurance record

A public statement shall distinguish component capability, complete vehicle integration and deployed ecosystem performance. Claims shall not assert universal compatibility, uninterrupted connectivity, immunity from attack or guaranteed prevention of collisions. Specific performance claims shall remain bounded by the evaluated profile, domain and evidence.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0186 | R28-03

Source p. 24

Public claims and the connectivity assurance record

The assurance record shall be versioned and linked to a controlled status source where one is operated. A machine-readable record or QR pointer shall not itself constitute proof of conformity; the issuer, integrity and current status shall be verifiable.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0187 | R28-04

Source p. 24

Public claims and the connectivity assurance record

The result shall state which changes or events require reassessment and whether continuing operational monitoring forms part of the scope. A test result represents the evaluated configuration and evidence period; it shall not imply that future updates or deployments have already passed.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0188 | R28-05

Source p. 25

Public claims and the connectivity assurance record

Use of a future IAF mark shall require explicit scheme authorisation. This working draft does not create an active mark, registry, certificate or grant of recognition. Prototype records used during piloting shall be conspicuously labelled pilot or example.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

29 | Operation, incidents and corrective action

CHECK 0189 | 29

Source p. 25

Operation, incidents and corrective action

Operational evidence shall feed back into the requirements, test catalogue and published assessment status.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0190 | R29-01

Source p. 25

Operation, incidents and corrective action

Operators shall monitor the indicators required by the service contract, including material losses of timing, availability, trust, data quality and interoperability. Monitoring shall include unusual clusters, affected variants and infrastructure or provider changes.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0191 | R29-02

Source p. 25

Operation, incidents and corrective action

Incident procedures shall assign triage, evidence preservation, containment, stakeholder notification, recovery and closure responsibilities. Urgent safety actions shall not wait for completion of a root cause report. Applicable reporting deadlines shall be identified in the obligations register.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0192 | R29-03

Source p. 25

Operation, incidents and corrective action

When a critical condition can invalidate a public claim, the responsible parties shall restrict or suspend the affected function or claim as appropriate and notify the decision authority without undue delay. Restoration shall require evidence that the control is effective for the affected population.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0193 | R29-04

Source p. 25

Operation, incidents and corrective action

Corrective action shall address similar products, deployments and dependencies, including systems that have not yet failed. The applicant shall verify that the correction does not introduce unsafe timing, compatibility, privacy or recovery behaviour.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0194 | R29-05

Source p. 25

Operation, incidents and corrective action

Scheduled reviews shall occur at a documented risk-based interval and after the triggers in Annex G. Reviews shall examine operational trends, changes in threats, infrastructure and technology support, and the continuing validity of the operating domain.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0195 | R29-06

Source p. 25

Operation, incidents and corrective action

Useful lessons shall be converted into revised controls, test scenarios and user information while protecting personal and sensitive security data. Closure shall record who accepted the residual risk and how effectiveness will continue to be checked.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

30 | Future technology and controlled extension

CHECK 0196 | R30-01

Source p. 25

Future technology and controlled extension

New radio generations, satellite paths, integrated sensing, novel roadside computing and other communication mechanisms may be introduced through a versioned extension profile. The extension shall define interface behaviour, maturity, restrictions, fallbacks and the evidence needed for its specific claim.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0197 | R30-02

Source p. 25

Future technology and controlled extension

AI used to interpret connected data, detect misbehaviour or support decisions shall have a declared function, training and evaluation data provenance, operating limits and change control. Validation shall include distribution shift, missing data, unusual road users and adversarially misleading inputs relevant to the threat model.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0198 | R30-03

Source p. 25

Future technology and controlled extension

Adaptive or learning behaviour shall remain within a validated operational boundary. Online model changes shall not bypass release approval for safety-relevant decisions. A model update that alters assessed behaviour shall trigger impact analysis and reassessment.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0199 | R30-04

Source p. 26

Future technology and controlled extension

Generated language, synthetic data or a digital twin shall not be treated as authoritative live traffic evidence without validation of its source, purpose and fidelity. A generative interface shall not invent road permission, emergency acknowledgement or remote driving authority.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0200 | R30-05

Source p. 26

Future technology and controlled extension

Migration towards quantum-resistant protection shall test larger credentials and messages, verification cost, bandwidth, storage, mixed fleets and downgrade resistance. An algorithm name alone shall not establish deployment readiness or interoperability.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0201 | R30-06

Source p. 26

Future technology and controlled extension

Satellite and other discontinuous paths shall demonstrate coverage gaps, acquisition time, blockage, handover, outage and receiver acceptance. They may support an emergency or informational service within measured limits; they shall not be presumed suitable for real-time cooperative control.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0202 | R30-07

Source p. 26

Future technology and controlled extension

The extension process shall retain backward compatibility where safe, identify deliberate incompatibilities and provide migration and retirement rules. Annex H defines minimum acceptance questions for emerging capabilities; Annex J records development work before adoption.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex A | Binding profiles and applicability

CHECK 0203 | A1 | part 1/17

Source p. 27

Required profile package

Before operational evaluation, the applicant shall deliver the following complete package. All fields shall contain a value, a justified not applicable entry or a stated limitation. An unfilled field affecting acceptance shall prevent a positive decision.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0204 | A1 | source schedule row | part 2/17

Source p. 27

Identity

Profile element: Identity

Required content: Profile identifier, revision, owner, issue date and integrity identifier

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0205 | A1 | source schedule row | part 3/17

Source p. 27

Object

Profile element: Object

Required content: V, C, I, S or E; exact product, installation, release and assessed boundary

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0206 | A1 | source schedule row | part 4/17

Source p. 27

Domain

Profile element: Domain

Required content: Markets, routes or site families, geometry, speed, traffic, environment and network conditions

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0207 | A1 | source schedule row | part 5/17

Source p. 27

Functions

Profile element: Functions

Required content: Enabled services, modules, intended outcomes and explicit exclusions

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0208 | A1 | source schedule row | part 6/17

Source p. 27

Participants

Profile element: Participants

Required content: Sender, receiver, gateway, controller, backend and operational owners

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0209 | A1 | source schedule row | part 7/17

Source p. 27

Physical interface

Profile element: Physical interface

Required content: Radio paths, frequencies, channel use, antenna details, power and host interfaces

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0210 | A1 | source schedule row | part 8/17

Source p. 27

Logical interface

Profile element: Logical interface

Required content: Complete encoding, schema, versions, field rules, units, coordinate frames and errors

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0211 | A1 | source schedule row | part 9/17

Source p. 27

Test vectors

Profile element: Test vectors

Required content: Valid, invalid, boundary, duplicate, stale, contradictory and unsupported messages with expected outcomes

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0212 | A1 | source schedule row | part 10/17

Source p. 27

Timing

Profile element: Timing

Required content: Source event, observation, send, receive, validation and output points; clock uncertainty

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0213 | A1 | source schedule row | part 11/17

Source p. 27

Acceptance

Profile element: Acceptance

Required content: Per service limits, confidence rules, sample plan and failure conditions

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0214 | A1 | source schedule row | part 12/17

Source p. 27

Authority

Profile element: Authority

Required content: Trust domains, credential roles, permissions, expiry and revocation behaviour

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0215 | A1 | source schedule row | part 13/17

Source p. 27

Data use

Profile element: Data use

Required content: Purposes, recipients, retention, access and transfer controls

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0216 | A1 | source schedule row | part 14/17

Source p. 27

Failure handling

Profile element: Failure handling

Required content: Detection, degraded operation, fallback, recovery and unavailable state indication

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0217 | A1 | source schedule row | part 15/17

Source p. 27

Operations

Profile element: Operations

Required content: Monitoring, incident contacts, service dependencies, support period and change triggers

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0218 | A1 | source schedule row | part 16/17

Source p. 27

Approval

Profile element: Approval

Required content: Applicant approval, technical review, evaluator acceptance and change history

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0219 | A1 | part 17/17

Source p. 27

Required profile package

The message package shall be sufficiently detailed for two independent teams to implement the same interface without undocumented bilateral assumptions. This standard does not define a common radio waveform or a complete wire encoding. A claim between different profiles shall therefore require a tested conversion profile and an explicit statement of the functions preserved. Identical service names alone do not establish interoperability.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0220 | A2 | source schedule row | part 1/11

Source p. 28

M01

Module: M01

Subject: Core connectivity and assurance

Application rule: All objects; Clauses 1 to 13 and 23 to 28 as applicable to the boundary

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0221 | A2 | source schedule row | part 2/11

Source p. 28

M02

Module: M02

Subject: V2V functions

Application rule: Every claimed V2V safety or traffic service; Clause 14

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0222 | A2 | source schedule row | part 3/11

Source p. 28

M03

Module: M03

Subject: Infrastructure and city interfaces

Application rule: Every claimed V2I or smart city service; Clause 15

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0223 | A2 | source schedule row | part 4/11

Source p. 28

M04

Module: M04

Subject: Emergency integration

Application rule: Every emergency communication or responder integration claim; Clause 17

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0224 | A2 | source schedule row | part 5/11

Source p. 28

M05

Module: M05

Subject: Vulnerable road users

Application rule: Every connected VRU function; Clause 16

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0225 | A2 | source schedule row | part 6/11

Source p. 28

M06

Module: M06

Subject: Cloud edge and connected services

Application rule: Every remote processing, API or account dependent service; Clause 18

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0226 | A2 | source schedule row | part 7/11

Source p. 28

M07

Module: M07

Subject: Advanced cooperative functions

Application rule: Shared perception, manoeuvre coordination or remote assistance; Clause 19

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0227 | A2 | source schedule row | part 8/11

Source p. 28

M08

Module: M08

Subject: User interaction

Application rule: Every human facing function; Clause 20

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0228 | A2 | source schedule row | part 9/11

Source p. 28

M09

Module: M09

Subject: Lifecycle and operations

Application rule: All objects with boundary appropriate responsibilities; Clauses 21, 22 and 29

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0229 | A2 | source schedule row | part 10/11

Source p. 28

M10

Module: M10

Subject: Emerging capability extension

Application rule: Every future technology claim beyond the frozen baseline; Clause 30 and Annex H

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0230 | A2 | part 11/11

Source p. 28

Module selection

A complete connected vehicle and ecosystem claim shall include M01, M02, M03, M04, M08 and M09, plus every additional module implemented in the claimed service chain. It shall cover a vehicle integration boundary and its declared external ecosystem dependencies. A limited component, service or infrastructure result is permitted, but shall identify the object and modules immediately beside the claim. Missing emergency or V2V functionality shall therefore yield a limited scope result rather than an unqualified complete claim.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0231 | A3

Source p. 28

Minimum service contract

For each service the applicant shall record a unique service identifier; purpose and intended users; initiating event; eligible opportunity definition; input sources; source authority; receiver action; timing and freshness limits; spatial relevance; required availability; privacy controls; failure response; test cases; operational indicators; and responsible parties. The same identifier shall be used in evidence and the public record. For event-driven services, the definition shall specify when a new event starts, how it differs from a retransmission, how it ends and how cancellation propagates. For periodic services, it shall specify the expected generation interval, permissible variation and behaviour when the source has no valid observation. For transactional services, it shall define idempotency and when the user may regard a transaction as accepted.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0232 | A4

Source p. 28

Applicability record

The applicability register shall identify each requirement and selected annex obligation, its applicability and reason, evidence, result, reviewer and date. Module summaries shall not replace this traceability. Changes to exclusions shall be reviewed for their effect on scope and public claims.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex B | Metrics, benchmarks and statistical decisions

CHECK 0233 | B1

Source p. 29

Measurement boundaries

Every measurement shall distinguish the original observation, event detection, sender application input, radio transmission where observable, receiver delivery, security and semantic acceptance, and application output. The report shall state which intermediate times were directly measured and which were inferred. Transport latency is the elapsed time between the profile's sender and receiver interface points. End-to-end latency begins at the source event or observation defined in the service contract and ends at the usable output. Age of information begins at the observation represented by the data, not at retransmission or forwarding. Human response and vehicle actuation shall be added where the safety budget depends on them. If clocks are not synchronised sufficiently for one-way measurement, the evaluator shall use another validated method or report the measurement as inconclusive. Half of round-trip time shall not be reported as measured one-way latency without validating path symmetry and processing effects.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0234 | B2 | part 1/7

Source p. 29

Draft reference classes

The following are proposed starting points for pilot comparison under the conditions in B3. They are deliberately defined as candidate IAF benchmark values and require validation under Annex J. They are not universal safety thresholds. A risk derived limit that is stricter shall apply. A weaker result may be reported descriptively but shall not pass the selected reference class.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0235 | B2 | source schedule row | part 2/7

Source p. 29

REF I

Class: REF I**Intended comparison:** Nonurgent informational service**Transport P99 ceiling:** 2000 ms**Source age ceiling at use:** 60 s**Timely valid delivery floor:** 99.0 percentRESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0236 | B2 | [source schedule row](#) | [part 3/7](#)

Source p. 29

REF T

Class: REF T

Intended comparison: Time sensitive traffic advisory

Transport P99 ceiling: 500 ms

Source age ceiling at use: 1000 ms

Timely valid delivery floor: 99.0 percent

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0237 | B2 | [source schedule row](#) | [part 4/7](#)

Source p. 29

REF W

Class: REF W

Intended comparison: Rapid hazard warning input

Transport P99 ceiling: 100 ms

Source age ceiling at use: 200 ms

Timely valid delivery floor: 99.9 percent

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0238 | B2 | [source schedule row](#) | [part 5/7](#)

Source p. 29

REF C

Class: REF C

Intended comparison: Cooperative motion or remote control

Transport P99 ceiling: Derived for each application

Source age ceiling at use: Derived for each application

Timely valid delivery floor: Derived for each application

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0239 | B2 | source schedule row | part 6/7

Source p. 29

REF E

Class: REF E**Intended comparison:** Emergency end-to-end service**Transport P99 ceiling:** Defined by routing and receiver agreement**Source age ceiling at use:** Defined for each data item**Timely valid delivery floor:** Defined by the complete service contractRESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0240 | B2 | part 7/7

Source p. 29

Draft reference classes

REF W concerns a communication input, not proof that a warning or control function is safe. Information older than its source-age ceiling shall be rejected or explicitly downgraded before actionable use. Such an opportunity counts as a delivery failure for the selected class. For REF I, REF T and REF W, timely valid delivery shall satisfy the transport deadline equal to the listed transport ceiling, the listed source-age ceiling and any stricter application deadline, after the declared uncertainty allowances are applied. The conditional P99 test and the timely valid delivery floor are separate checks; both shall pass. A class without a complete acceptance contract cannot receive a pass result. No generic number in this table qualifies REF C or REF E.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0241 | B3

Source p. 30

Reference workload and stress conditions

The profile shall freeze the production payload and security overhead, generation rules, participant population, topology and background traffic. A periodic reference stream may use 10 messages per second with a 300 byte application payload solely for reproducible pilot comparison; the report shall also test actual production traffic and shall identify the reference stream as synthetic. Protocols that cannot support this stream shall use their declared production stream and shall not claim an identical workload comparison. Baseline, declared peak load and controlled overload shall each be exercised. As a draft minimum, controlled overload shall offer 120 percent of the declared peak application input rate for 10 minutes in a protected test environment. This is a test stress proposal, not a permission to exceed legal radio limits. The evaluator shall observe whether rate control, shedding and recovery preserve the safety boundary. Normal service performance is required inside the claimed domain; overload beyond that domain requires controlled degradation and recovery. Outage injections shall include 100 ms, 1 s, 10 s and 60 s where meaningful, plus an outage exceeding the declared maximum tolerable duration. The programme shall also include the specific burst and timing boundaries found in the hazard analysis. Each failure transition shall be exercised at least 30 times per selected critical stratum as a screening minimum, with additional trials required by the statistical acceptance rule. Thirty trials do not demonstrate a 99.9 percent success claim.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0242 | B4 | source schedule row | part 1/14

Source p. 30

Timely valid delivery ratio

Metric: Timely valid delivery ratio

Required computation or observation: Number of eligible opportunities producing the correct validated delivery before its deadline divided by all eligible opportunities

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0243 | B4 | source schedule row | part 2/14

Source p. 30

Conditional latency percentile

Metric: Conditional latency percentile

Required computation or observation: Percentile among delivered observations, with late and missing counts reported alongside it

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0244 | B4 | source schedule row | part 3/14

Source p. 30

Age at use

Metric: Age at use

Required computation or observation: Receiver use time less original observation time, including clock uncertainty

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0245 | B4 | source schedule row | part 4/14

Source p. 30

Application success

Metric: Application success

Required computation or observation: Eligible hazard or service events with the correct outcome within the application deadline divided by all eligible events

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0246 | B4 | source schedule row | part 5/14

Source p. 30

Miss rate

Metric: Miss rate

Required computation or observation: Eligible events without the required application outcome divided by all eligible events

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0247 | B4 | source schedule row | part 6/14

Source p. 30

Nuisance activation rate

Metric: Nuisance activation rate

Required computation or observation: Unnecessary activations divided by declared nonhazard exposure, such as operating hours or independent negative scenarios

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0248 | B4 | source schedule row | part 7/14

Source p. 30

Availability

Metric: Availability

Required computation or observation: Eligible demand time with usable service inside all mandatory limits divided by total eligible demand time

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0249 | B4 | source schedule row | part 8/14

Source p. 30

Outage duration

Metric: Outage duration

Required computation or observation: Time from loss of required service until verified restoration of the same service level

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0250 | B4 | source schedule row | part 9/14

Source p. 30

Recovery time

Metric: Recovery time

Required computation or observation: Time from removal of the injected fault to verified restoration, separately from fault detection time

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0251 | B4 | source schedule row | part 10/14

Source p. 30

Position error

Metric: Position error

Required computation or observation: Difference from independent ground truth, with coordinate frame and error distribution stated

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0252 | B4 | source schedule row | part 11/14

Source p. 30

Warning cancellation delay

Metric: Warning cancellation delay

Required computation or observation: Time from the defined event end to removal or valid replacement of the warning

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0253 | B4 | source schedule row | part 12/14

Source p. 30

Security misuse outcome

Metric: Security misuse outcome

Required computation or observation: Whether unauthorised input reached a protected action, and whether containment met its deadline

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0254 | B4 | source schedule row | part 13/14

Source p. 30

Energy per service outcome

Metric: Energy per service outcome

Required computation or observation: Measured energy within the declared boundary divided by successfully completed service outcomes

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0255 | B4 | part 14/14

Source p. 31

Required metric definitions

One broadcast event may create several eligible receiver opportunities if the profile defines them in advance. Correlation among those receivers shall be accounted for. Duplicates shall not increase the success numerator. Rejected malformed test inputs shall be recorded in the robustness population rather than silently mixed with valid delivery opportunities. A malformed production message required for an eligible event counts as failure of that event.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0256 | B5

Source p. 31

Sample size and confidence

For a success fraction, the default decision confidence shall be a one-sided 95 percent exact binomial bound when trials are reasonably independent with a stable success probability. The evaluator shall state the assumptions. A justified alternative shall be fixed before testing where clustering or changing conditions require a different model. For zero observed failures in n independent trials, the one-sided 95 percent lower confidence bound for success equals the n th root of 0.05. Consequently, at least 299 independent successes with zero failures are needed to support a 99.0 percent floor, and at least 2995 are needed to support a 99.9 percent floor. These are statistical calculations, not proposed road safety targets. With failures, the exact bound shall be recalculated; collecting a nominal count alone is insufficient. For k successes among n independent trials, with k greater than zero, the lower bound is the 0.05 quantile of the beta distribution with shape parameters k and n minus k plus one. With zero successes, the lower bound is zero. These are fixed-sample rules unless the approved analysis includes a valid sequential design. The acceptance population shall be specified before testing. Each critical stratum for which the success floor is claimed shall meet its own rule, or a justified simultaneous analysis shall control the stated error rate across strata. Pooling easy and difficult conditions shall not hide a failed critical condition. Independent journeys, resets or blocks shall be used where consecutive transmissions share persistent channel, source or processing conditions. Percentile reporting shall state the estimator and an uncertainty interval appropriate to the sample dependence. Fewer than 100 delivered observations cannot adequately characterise an empirical P99 tail. Having 100 or more observations does not by itself establish adequate precision; the interval width and dependence assumptions shall also support the decision. Even a large conditional latency sample shall not replace the timely delivery confidence test.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0257 | B6

Source p. 31

Measurement uncertainty and decision rules

The uncertainty budget shall include clock alignment, timestamp placement, reference equipment, quantisation, sampling, processing instrumentation and analysis. Uncertainty shall be small enough to distinguish the decision from the limit. If it is not, the result is inconclusive. For a maximum latency limit, the chosen upper confidence and measurement uncertainty allowance shall remain within the limit. For a minimum delivery ratio, the lower confidence bound shall meet the floor. The evaluator shall avoid double counting the same uncertainty component and shall document how statistical and measurement uncertainty are combined. Zero observed unsafe actions is a necessary condition in tests designed to expose a prohibited action. It shall not be described as proof of a zero real world failure rate. A critical unsafe action shall fail the relevant safety gate regardless of a favourable aggregate success ratio.

RESULT	Select result	FINDING / ACTION ID	
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EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0258 | B7

Source p. 32

Reliability observation

An availability claim shall have a predeclared exposure period, monitoring resolution, eligible time definition and outage classification. As a draft field evidence minimum, a continuously operated ecosystem service shall be observed for at least 30 consecutive days including relevant peak periods. This minimum is for coverage and does not, by itself, establish a rare outage probability or an annual service level. Mean values shall be accompanied by maximum observed outage, duration distribution, service region and monitoring gaps. A 99.9 percent availability objective, if selected by the profile, shall be demonstrated over the stated observation window and shall not automatically be extrapolated to a year.

RESULT	Select result	FINDING / ACTION ID	
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EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex C | Scenario catalogue and test methods

CHECK 0259 | C1 | part 1/49

Source p. 33

Scenario selection and coverage

The evaluator shall screen every scenario below against the declared scope. The catalogue is a minimum coverage framework, not an exhaustive list of all hazards. The hazard analysis shall add scenarios where the architecture, road environment or failure mechanism is not represented.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0260 | C1 | source schedule row | part 2/49

Source p. 33

S01

ID: S01

Scenario family: Unobstructed approach at lower and upper domain speeds

Principal evidence: Timely delivery and application deadline

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0261 | C1 | source schedule row | part 3/49

Source p. 33

S02

ID: S02

Scenario family: Obstructed intersection with crossing traffic

Principal evidence: Relevance and warning effectiveness

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0262 | C1 | source schedule row | part 4/49

Source p. 33

S03

ID: S03

Scenario family: Abrupt deceleration behind an occluding vehicle

Principal evidence: Source to warning timing and miss rate

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0263 | C1 | source schedule row | part 5/49

Source p. 33

S04

ID: S04

Scenario family: Stationary vehicle or queue around a bend

Principal evidence: Event extent and early warning limits

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0264 | C1 | source schedule row | part 6/49

Source p. 33

S05

ID: S05

Scenario family: Wrong way vehicle on divided roads

Principal evidence: Direction discrimination and false warnings

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0265 | C1 | source schedule row | part 7/49

Source p. 33

S06

ID: S06

Scenario family: Merge or lane change with mixed participants

Principal evidence: Conflict prediction and unavailable data behaviour

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0266 | C1 | source schedule row | part 8/49

Source p. 33

S07

ID: S07

Scenario family: Bridge above a road or adjacent tunnel

Principal evidence: Road level and lane association

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0267 | C1 | [source schedule row](#) | [part 9/49](#)

Source p. 33

S08

ID: S08

Scenario family: Adaptive traffic signal timing

Principal evidence: Signal age and geometry binding

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0268 | C1 | [source schedule row](#) | [part 10/49](#)

Source p. 33

S09

ID: S09

Scenario family: Signal and map version mismatch

Principal evidence: Rejection and controlled unavailable state

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0269 | C1 | [source schedule row](#) | [part 11/49](#)

Source p. 33

S10

ID: S10

Scenario family: Roadworks and moving maintenance vehicles

Principal evidence: Temporary event lifecycle and cancellation

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0270 | C1 | [source schedule row](#) | [part 12/49](#)

Source p. 33

S11

ID: S11

Scenario family: Closure or reversible lane transition

Principal evidence: Authority and effective time handling

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0271 | C1 | [source schedule row](#) | [part 13/49](#)

Source p. 33

S12

ID: S12

Scenario family: Emergency vehicle priority request

Principal evidence: Role permission and grant confirmation

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0272 | C1 | [source schedule row](#) | [part 14/49](#)

Source p. 33

S13

ID: S13

Scenario family: Pedestrian crossing from occlusion

Principal evidence: Detection, relevance and uncertainty

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0273 | C1 | [source schedule row](#) | [part 15/49](#)

Source p. 33

S14

ID: S14

Scenario family: Cyclist or mobility aid with poor device placement

Principal evidence: Radio and user performance limitations

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0274 | C1 | [source schedule row](#) | [part 16/49](#)

Source p. 33

S15

ID: S15

Scenario family: Road user without transmitting equipment

Principal evidence: Absence handling and safety assumptions

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0275 | C1 | [source schedule row](#) | [part 17/49](#)

Source p. 33

S16

ID: S16

Scenario family: Dense crowd or many devices per person

Principal evidence: Duplicate identity and congestion behaviour

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0276 | C1 | [source schedule row](#) | [part 18/49](#)

Source p. 33

S17

ID: S17

Scenario family: Dense traffic and competing services

Principal evidence: Priority, capacity and tail latency

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0277 | C1 | [source schedule row](#) | [part 19/49](#)

Source p. 33

S18

ID: S18

Scenario family: Mobile network or edge handover

Principal evidence: Session continuity and command age

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0278 | C1 | [source schedule row](#) | [part 20/49](#)

Source p. 33

S19

ID: S19

Scenario family: Tunnel or urban canyon

Principal evidence: Position integrity and fallback

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0279 | C1 | [source schedule row](#) | [part 21/49](#)

Source p. 33

S20

ID: S20

Scenario family: Controlled positioning or time spoofing

Principal evidence: Detection, false confidence and containment

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0280 | C1 | [source schedule row](#) | [part 22/49](#)

Source p. 33

S21

ID: S21

Scenario family: Drift, time reset or timestamp wrap

Principal evidence: Freshness checks and event ordering

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0281 | C1 | [source schedule row](#) | [part 23/49](#)

Source p. 33

S22

ID: S22

Scenario family: Burst loss and sustained outage

Principal evidence: Detection, degraded state and recovery

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0282 | C1 | [source schedule row](#) | [part 24/49](#)

Source p. 34

S23

ID: S23

Scenario family: Shared backhaul or power failure

Principal evidence: Common cause exposure

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0283 | C1 | source schedule row | part 25/49

Source p. 34

S24

ID: S24

Scenario family: Cloud region loss or stale replica

Principal evidence: Service correctness after recovery

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0284 | C1 | source schedule row | part 26/49

Source p. 34

S25

ID: S25

Scenario family: Credential expiry or mass revocation

Principal evidence: Trust continuity and permission enforcement

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0285 | C1 | source schedule row | part 27/49

Source p. 34

S26

ID: S26

Scenario family: Replay, duplicate or reordered event

Principal evidence: Suppression and bounded action

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0286 | C1 | source schedule row | part 28/49

Source p. 34

S27

ID: S27

Scenario family: Signed but implausible or conflicting data

Principal evidence: Content validation and trust handling

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0287 | C1 | [source schedule row](#) | [part 29/49](#)

Source p. 34

S28

ID: S28

Scenario family: Malformed messages and resource exhaustion

Principal evidence: Isolation, availability and parser behaviour

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0288 | C1 | [source schedule row](#) | [part 30/49](#)

Source p. 34

S29

ID: S29

Scenario family: Gateway conversion between profiles

Principal evidence: Semantic equivalence and source age

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0289 | C1 | [source schedule row](#) | [part 31/49](#)

Source p. 34

S30

ID: S30

Scenario family: OTA interruption or bad target package

Principal evidence: Integrity, recovery and authority

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0290 | C1 | [source schedule row](#) | [part 32/49](#)

Source p. 34

S31

ID: S31

Scenario family: Mixed software or trust versions

Principal evidence: Compatibility and downgrade protection

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0291 | C1 | source schedule row | part 33/49

Source p. 34

S32

ID: S32

Scenario family: Emergency call with poor location or power loss

Principal evidence: End-to-end acceptance and user status

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0292 | C1 | source schedule row | part 34/49

Source p. 34

S33

ID: S33

Scenario family: Duplicate emergency triggers or responder rejection

Principal evidence: Retry, cancellation and failure indication

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0293 | C1 | source schedule row | part 35/49

Source p. 34

S34

ID: S34

Scenario family: Ownership transfer or rental return

Principal evidence: Access revocation and data separation

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0294 | C1 | source schedule row | part 36/49

Source p. 34

S35

ID: S35

Scenario family: Antenna repair or RSU relocation

Principal evidence: Requalification and profile identity

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0295 | C1 | source schedule row | part 37/49

Source p. 34

S36

ID: S36

Scenario family: Temperature, vibration or electrical disturbance

Principal evidence: Communication before and after exposure

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0296 | C1 | source schedule row | part 38/49

Source p. 34

S37

ID: S37

Scenario family: Long parking and repeated failed reconnect

Principal evidence: Energy use and essential reserve

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0297 | C1 | source schedule row | part 39/49

Source p. 34

S38

ID: S38

Scenario family: Cross-border or operator transition

Principal evidence: Legal profile, trust and service compatibility

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0298 | C1 | source schedule row | part 40/49

Source p. 34

S39

ID: S39

Scenario family: Cooperative perception with correlated reports

Principal evidence: Object fusion and false confidence

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0299 | C1 | [source schedule row](#) | [part 41/49](#)

Source p. 34

S40

ID: S40

Scenario family: Manoeuvre cancellation or platoon member loss

Principal evidence: State agreement and safe separation

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0300 | C1 | [source schedule row](#) | [part 42/49](#)

Source p. 34

S41

ID: S41

Scenario family: Remote assistance operator or video loss

Principal evidence: Local authority and stale command rejection

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0301 | C1 | [source schedule row](#) | [part 43/49](#)

Source p. 34

S42

ID: S42

Scenario family: AI distribution shift or misleading input

Principal evidence: Performance limits and safe rejection

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0302 | C1 | [source schedule row](#) | [part 44/49](#)

Source p. 34

S43

ID: S43

Scenario family: Satellite blockage or delayed delivery

Principal evidence: Service class limits and receiver status

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0303 | C1 | source schedule row | part 45/49

Source p. 34

S44

ID: S44

Scenario family: Disaster load and emergency traffic surge

Principal evidence: Priority, retry control and degraded service

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0304 | C1 | source schedule row | part 46/49

Source p. 34

S45

ID: S45

Scenario family: Service provider closure or network retirement

Principal evidence: Migration and supported fallback

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0305 | C1 | source schedule row | part 47/49

Source p. 34

S46

ID: S46

Scenario family: Malicious or mistaken misbehaviour reports

Principal evidence: Legitimate participant protection and review

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0306 | C1 | source schedule row | part 48/49

Source p. 34

S47

ID: S47

Scenario family: Charging parking or toll transaction interruption

Principal evidence: Identity, duplicate prevention and reconciliation

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0307 | C1 | source schedule row | part 49/49

Source p. 34

S48

ID: S48

Scenario family: Nuisance alerts under high driver workload

Principal evidence: Comprehension, distraction and suppression

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0308 | C2

Source p. 35

Common test record

Each executed test shall record test identifier, requirements, profile revision, selected scenario, hypotheses, configuration, tools, calibration, clock alignment, environment, payload, load, test population, repetitions, acceptance rule, raw evidence identifiers, observed results, deviations and reviewer. The evaluator shall retain both valid failed runs and successful retests. The programme shall maintain a matrix linking each requirement to its scenario, test method, configuration, evidence and result. A design review may close a documentary requirement; it shall not replace a required performance test. Multiple methods may support one requirement. Every failed or inconclusive critical scenario shall receive a documented disposition before the decision review. The following method cards define minimum procedural steps. The binding profile shall add exact signal levels, messages, coordinates, traffic timings and application criteria. A method card with missing acceptance parameters cannot be used to issue a positive result.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0309 | T01

Source p. 35

Message semantics and conversion

Applies to Clauses 9 and 10 and scenarios S09, S21, S26, S29 and S31. Configure the sender and receiver to the frozen profile. Inject every message type with nominal, minimum, maximum, unknown, missing and invalid values. Exercise units, coordinate frame, time base, version and extension handling. For gateways, compare original and converted meaning using independent decoding. Record accepted values, rejections, source age, provenance and resulting application outputs. Pass only if every mandatory vector produces the specified interpretation or rejection, no stale value is made current and no unauthorised output occurs. Unsupported semantics shall produce an explicit limited or unavailable state.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0310 | T02

Source p. 35

Independent interoperability

Applies to Clauses 4, 9 and 25. Construct the full claimed sender and receiver matrix, including distinct implementations, directions and versions. Run normal service exchanges, boundary vectors, cancellation and reconnect cases for every applicable pair. Repeat with production security and representative load. Record implementation diversity and shared dependencies. Pass only if all mandatory semantic cases pass and each claimed pair meets its selected performance rule. Unavailable counterparts shall remain a documented limitation rather than a simulated multi-vendor success.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0311 | T03

Source p. 35

Timing and congestion

Applies to Clauses 8, 10 and 23 and scenarios S01, S17 and S18. Align instrumentation, validate timestamp boundaries and run baseline and peak production workloads. Inject the overload in Annex B in a protected environment. Repeat across the domain conditions and critical strata selected before testing. Record all eligible opportunities, accepted and rejected deliveries, conditional latency, age at use, application outcomes and queue state. Pass the performance portion only within the claimed domain and its confidence rules. During beyond domain overload, pass the resilience portion only if the declared degraded behaviour and safe boundary are maintained.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0312 | T04

Source p. 36

Connectivity loss and recovery

Applies to Clauses 6, 7 and 23. Interrupt each relevant path for the durations in Annex B and for the hazard derived boundary cases. Inject common cause loss of shared power, backhaul or trust service. Restore each dependency in different orders and with old data waiting in queues. Measure detection, unavailable indication, fallback and recovery times. Pass only if prohibited actions do not occur, stale information is not released as current and recovered service authority is revalidated. An unsafe transition fails even if steady state operation before and after the fault meets its targets.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0313 | T05

Source p. 36

Time and position integrity

Applies to Clause 10 and scenarios S07, S19, S20 and S21. Use independent ground truth to vary position and time error within and beyond the declared integrity limits. Exercise geometry ambiguity, drift, resets, loss of reference and controlled deceptive input in an authorised environment. Record actual error, reported uncertainty, detection time, missed detections, false alarms and receiver action. Pass only if the system meets the profile's error bounds when claiming valid output and enters its required limited state when integrity cannot be supported.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0314 | T06

Source p. 36

Trust and security boundaries

Applies to Clauses 11 and 12. Present valid, expired, revoked, unknown and wrong role credentials; replay valid messages in a new context; and inject signed implausible content. Exercise parser and resource stress against authorised test targets. Attempt permitted laboratory checks of isolation between noncritical and protected domains. Record permission decisions, protected outputs, detection and containment times, service effects and evidence integrity. Pass only if all mandatory rejection rules operate, no unapproved authority crosses a boundary and required service or controlled fallback is preserved. A valid signature on false content shall not bypass application checks.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0315 | T07

Source p. 36

Traffic and infrastructure integration

Applies to Clause 15 and scenarios S08 to S12. Connect the assessed system to a controlled traffic controller or validated equivalent. Vary actual signal phases, geometry versions, temporary restrictions and priority permissions. Introduce stale maps, inconsistent states and operator maintenance conditions. Record the authoritative state, transmitted state, vehicle interpretation and status shown to users. Pass only if the correct movement and validity are established, stale or conflicting instructions are withheld and priority is not assumed without a valid grant. Field scope requires evidence of the actual deployment interface as well as a bench result.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0316 | T08

Source p. 36-37

Emergency delivery

Applies to Clause 17. Trigger manual and simulated automatic emergency events through an authorised test receiving endpoint. Include poor location, primary power loss, blocked path, roaming, rejection, retry and duplicate triggers. Use the production data and security configuration. Record trigger, routing attempt, receiver acceptance, available communication channel, location quality and user status. Pass only if the complete declared service contract is met and failures are truthfully indicated. A simulated responder result shall retain its simulated label.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0317 | T09

Source p. 37

Update and configuration recovery

Applies to Clauses 21 and 22 and scenarios S30, S31 and S35. Test authentic and unauthorised packages, wrong target, interruption at installation stages, power variation and recovery. Repeat interoperability and timing checks on the restored state and the intended final state. Record installed versions, integrity evidence, recovery action and population controls. Pass only if the system reaches an authorised recoverable state, does not restore prohibited vulnerabilities and preserves the required safety boundary. Installation success alone is insufficient.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0318 | T10

Source p. 37

Privacy and ownership lifecycle

Applies to Clause 13 and scenario S34. Execute enrolment, optional consent choices, withdrawal, rental return, sale and account removal. Attempt authorised test access using the former user's credentials and examine controlled traces of data flows and stored records. Pass only if permissions and data handling match the declared policy, a former user cannot access subsequent activity, and required deletion or retention is verifiable. Evidence supplied to the evaluator shall minimise personal information.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0319 | T11

Source p. 37

Cooperative and remote functions

Applies to Clause 19 and scenarios S39 to S41. Inject correlated perception, contradictory tracks, participant departure, cancelled commitments and delayed remote commands. Remove operator availability, video, timing and network access separately and in selected common cause combinations. Record source lineage, commitment state, local authority and motion related outputs. Pass only against the application specific safety and performance limits, with no residual stale command authority. Generic REF W timing is insufficient for this test.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0320 | T12

Source p. 37

Human and field validation

Applies to Clauses 16, 20, 25 and 29. Observe representative users and deployed conditions through a predeclared programme. Include relevant peak loads, low participation, nuisance alerts, service outages and status transitions. Use controlled methods for hazards unsuitable for public road testing. Record participant coverage, task completion, misunderstandings, unsafe responses, exposure and operational indicators. Pass only if the profile's usability and field criteria are met with sufficient evidence. State the demographic, geographic and seasonal limitations of the observation.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0321 | T13

Source p. 37-38

Environment, power and installed equipment

Applies to Clauses 8, 22 and 24 and scenarios S23, S35, S36 and S37. Test the installed equipment or a justified representative assembly at the environmental and electrical severities fixed in the profile. Include antenna or cable disturbance, supply variation, low battery, sleep and wake cycles, declared emergency reserve and communication under thermal or mechanical stress where applicable. Record communication performance, integrity checks, power consumption, reserve capability and recovery before, during where practicable and after exposure. Pass only if the declared performance or controlled fallback is maintained, installation assumptions remain valid and latent faults do not leave a falsely healthy service indication. Physical survival alone shall not establish functional conformity.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0322 | T14

Source p. 38

Complete application outcome

Applies to Clauses 6, 14 to 20, 23 and 26. For each claimed service, execute independent positive events, negative events and boundary conditions using verified ground truth. Measure source observation, validated receiver information and the required application outcome. Include event cancellation, contradictory inputs, nonparticipating road users and irrelevant nearby events where applicable. Record timely correct outcomes, missed outcomes, nuisance activations, cancellation delay and any prohibited action. Use the application-specific acceptance limits and statistical plan. Pass only if all mandatory outcome and failure-response criteria are met. A successful message reception or a favourable network percentile shall not substitute for the required application outcome.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0323 | C3 | part 1/13

Source p. 38

Verification routing

The evaluator shall use the following routing as a starting point and add evidence where necessary. Documentary requirements still require record review. A route to a method is not evidence that the requirement has passed.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0324 | C3 | source schedule row | part 2/13

Source p. 38

Scope governance and architecture

Requirement area: Scope governance and architecture

Principal methods: T02 T04 T06

Additional evidence: Profiles, responsibilities and risk records

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0325 | C3 | source schedule row | part 3/13

Source p. 38

Radio timing and semantic integrity

Requirement area: Radio timing and semantic integrity

Principal methods: T01 T02 T03 T05

Additional evidence: Calibration and uncertainty budgets

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0326 | C3 | source schedule row | part 4/13

Source p. 38

Trust cybersecurity and APIs

Requirement area: Trust cybersecurity and APIs

Principal methods: T01 T04 T06 T09

Additional evidence: Threat analysis and administrative access tests

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0327 | C3 | source schedule row | part 5/13

Source p. 38

Privacy and ownership

Requirement area: Privacy and ownership

Principal methods: T10

Additional evidence: Data flow, retention and access records

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0328 | C3 | source schedule row | part 6/13

Source p. 38

V2V infrastructure and VRU outcomes

Requirement area: V2V infrastructure and VRU outcomes

Principal methods: T07 T12 T14

Additional evidence: Ground truth and service-specific limits

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0329 | C3 | source schedule row | part 7/13

Source p. 38

Emergency integration

Requirement area: Emergency integration

Principal methods: T04 T08 T13 T14

Additional evidence: Receiver agreement and complete outcome criteria

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0330 | C3 | [source schedule row](#) | [part 8/13](#)

Source p. 38

Cooperative and remote functions

Requirement area: Cooperative and remote functions

Principal methods: T05 T06 T11 T14

Additional evidence: Control authority and application safety case

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0331 | C3 | [source schedule row](#) | [part 9/13](#)

Source p. 38

Human interaction

Requirement area: Human interaction

Principal methods: T12 T14

Additional evidence: Participant coverage and comprehension findings

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0332 | C3 | [source schedule row](#) | [part 10/13](#)

Source p. 38

Updates lifecycle and operations

Requirement area: Updates lifecycle and operations

Principal methods: T04 T09 T10 T13

Additional evidence: Support, incident and reassessment records

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0333 | C3 | [source schedule row](#) | [part 11/13](#)

Source p. 38

Physical environment and energy

Requirement area: Physical environment and energy

Principal methods: T03 T13

Additional evidence: Exposure severities and energy boundaries

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0334 | C3 | source schedule row | part 12/13

Source p. 38

Quantitative decisions

Requirement area: Quantitative decisions

Principal methods: T03 T12 T14

Additional evidence: Sampling, raw data and independent analysis

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0335 | C3 | source schedule row | part 13/13

Source p. 38

Emerging capabilities

Requirement area: Emerging capabilities

Principal methods: Applicable methods plus extension tests

Additional evidence: Annex H extension package

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex D | Evaluation workflow and evidence descriptors

CHECK 0336 | D1 | source schedule row | part 1/10

Source p. 39

1 Scope review

Stage: 1 Scope review

Required output: Object, modules, domain and obligations register

Condition to proceed: Claim is bounded and responsibilities are allocated

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0337 | D1 | source schedule row | part 2/10

Source p. 39

2 Profile review

Stage: 2 Profile review

Required output: Complete binding profile and applicability register

Condition to proceed: Interfaces and acceptance criteria are testable

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0338 | D1 | source schedule row | part 3/10

Source p. 39

3 Design review

Stage: 3 Design review

Required output: Hazard, threat, privacy and architecture evidence

Condition to proceed: Uncontrolled hazards are resolved for testing

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0339 | D1 | source schedule row | part 4/10

Source p. 39

4 Controlled testing

Stage: 4 Controlled testing

Required output: Bench, simulation, track and fault results

Condition to proceed: Mandatory controlled test requirements pass

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0340 | D1 | source schedule row | part 5/10

Source p. 39

5 Interoperability

Stage: 5 Interoperability

Required output: Independent pair and version matrix

Condition to proceed: Claimed combinations pass or scope is explicitly limited

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0341 | D1 | source schedule row | part 6/10

Source p. 39

6 Field validation

Stage: 6 Field validation

Required output: Representative operational and human evidence

Condition to proceed: Field criteria and evidence coverage are met

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0342 | D1 | source schedule row | part 7/10

Source p. 39

7 Findings closure

Stage: 7 Findings closure

Required output: Corrections and regression evidence

Condition to proceed: All applicable nonconformities are closed

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0343 | D1 | source schedule row | part 8/10

Source p. 39

8 Independent decision

Stage: 8 Independent decision

Required output: Reviewed statement with scope and limitations

Condition to proceed: Applicable requirements pass and evidence is sufficient

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0344 | D1 | source schedule row | part 9/10

Source p. 39

9 Continuing review

Stage: 9 Continuing review

Required output: Operational indicators and change dispositions

Condition to proceed: Public status remains accurate for the current scope

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0345 | D1 | part 10/10

Source p. 39

Evaluation stages

Stages may overlap when doing so does not bypass a required safety or evidence condition. An infrastructure or component scope may use integration evidence from a representative host, but the result shall state that host and the installation limits. A complete ecosystem result requires evidence through the actual service chain.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0346 | D2 | part 1/6

Source p. 39

Evidence descriptors

The report shall use the following descriptors independently. They identify the kind of evidence available and are not a ranking of product quality.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0347 | D2 | source schedule row | part 2/6

Source p. 39

Design reviewed

Descriptor: Design reviewed

Meaning: Requirements and design records examined

Limitation: Does not show runtime performance

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0348 | D2 | source schedule row | part 3/6

Source p. 39

Bench demonstrated

Descriptor: Bench demonstrated

Meaning: Controlled functional and robustness tests completed

Limitation: Does not establish field suitability by itself

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0349 | D2 | source schedule row | part 4/6

Source p. 39

Interoperability demonstrated

Descriptor: Interoperability demonstrated

Meaning: Named independent implementation pairs tested

Limitation: Does not cover untested pairs or profiles

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0350 | D2 | source schedule row | part 5/6

Source p. 40

Field demonstrated

Descriptor: Field demonstrated

Meaning: Identified deployment conditions observed

Limitation: Does not cover every geography or season

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0351 | D2 | source schedule row | part 6/6

Source p. 40

Operationally monitored

Descriptor: Operationally monitored

Meaning: Indicators observed for a stated period

Limitation: Depends on monitored scope, resolution and changes

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0352 | D3

Source p. 40

Mandatory decision gates

The decision review shall confirm that scope and identity are accurate; every safety-relevant dependency is addressed; authority and privacy boundaries are enforced; required messages retain their meaning; critical failure responses are demonstrated; performance limits meet their decision rules; and all mandatory evidence is traceable. Any failed gate blocks a positive result for the affected scope. The authority may issue a limited scope result only when the limitation is technically justified, the excluded function is isolated and the public wording cannot imply the excluded capability. An unresolved flaw in a shared core component cannot be removed by changing only the marketing description.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0353 | D4 | source schedule row | part 1/11

Source p. 40

Pass

Status: Pass

Required interpretation: Applicable provision meets its acceptance rule with sufficient evidence

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0354 | D4 | source schedule row | part 2/11

Source p. 40

Fail

Status: Fail

Required interpretation: Applicable provision is not met

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0355 | D4 | source schedule row | part 3/11

Source p. 40

Inconclusive

Status: Inconclusive

Required interpretation: Available evidence or uncertainty does not permit a decision

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0356 | D4 | source schedule row | part 4/11

Source p. 40

Not assessed

Status: Not assessed

Required interpretation: Applicable provision has not yet been evaluated

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0357 | D4 | source schedule row | part 5/11

Source p. 40

Not applicable

Status: Not applicable

Required interpretation: Verified scope justification excludes the provision under Clause 2

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0358 | D4 | source schedule row | part 6/11

Source p. 40

Positive scoped decision

Status: Positive scoped decision

Required interpretation: All applicable mandatory requirements pass for the stated scope

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0359 | D4 | source schedule row | part 7/11

Source p. 40

Negative decision

Status: Negative decision

Required interpretation: One or more applicable mandatory requirements fail

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0360 | D4 | source schedule row | part 8/11

Source p. 40

Decision deferred

Status: Decision deferred

Required interpretation: Required evidence or findings closure is incomplete

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0361 | D4 | source schedule row | part 9/11

Source p. 40

Suspended

Status: Suspended

Required interpretation: Previously positive claim is temporarily withheld because its continued validity is in doubt

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0362 | D4 | source schedule row | part 10/11

Source p. 40

Withdrawn

Status: Withdrawn

Required interpretation: Claim is no longer authorised for the stated scope

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0363 | D4 | part 11/11

Source p. 40

Findings and outcome vocabulary

During development, these shall be prefixed by pilot where an actual pilot is conducted. No pilot result shall imply scheme authorisation that has not been granted.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex E | Risk and assurance worksheets

CHECK 0364 | E1 | part 1/9

Source p. 41

Hazard record fields

Every hazard record shall identify the service and operating condition, initiating event, affected people or assets, unsafe outcome, severity rationale, exposure, likelihood evidence where available, detection and controllability, controls, residual risk, verification and responsible acceptance. Numerical risk scores may organise work but shall not override a credible severe hazard merely because its probability is unknown.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0365 | E1 | source schedule row | part 2/9

Source p. 41

Hazard identifier

Field: Hazard identifier

Required entry: Stable identifier linked to the service and profile

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0366 | E1 | source schedule row | part 3/9

Source p. 41

Cause and condition

Field: Cause and condition

Required entry: Fault, misuse, incorrect data or domain condition initiating the hazard

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0367 | E1 | source schedule row | part 4/9

Source p. 41

Consequence

Field: Consequence

Required entry: Observable unsafe or harmful outcome

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0368 | E1 | [source schedule row](#) | [part 5/9](#)

Source p. 41

Existing assumptions

Field: Existing assumptions

Required entry: Participant, sensor, operator, network and infrastructure assumptions

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0369 | E1 | [source schedule row](#) | [part 6/9](#)

Source p. 41

Control allocation

Field: Control allocation

Required entry: Prevention, detection, containment and fallback with owners

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0370 | E1 | [source schedule row](#) | [part 7/9](#)

Source p. 41

Time and integrity budget

Field: Time and integrity budget

Required entry: Maximum acceptable age, error, detection delay and response delay

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0371 | E1 | [source schedule row](#) | [part 8/9](#)

Source p. 41

Verification

Field: Verification

Required entry: Test scenario, method, acceptance limit and evidence

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0372 | E1 | source schedule row | part 9/9

Source p. 41

Residual decision

Field: Residual decision

Required entry: Remaining limitations, responsible acceptance and review triggers

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0373 | E2 | part 1/16

Source p. 41

Required hazard prompts

The following records are prompts for analysis, not completed product risk assessments. Each applicable prompt shall be evaluated for the actual architecture and domain.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0374 | E2 | source schedule row | part 2/16

Source p. 41

H01 Stale event replay

Prompt: H01 Stale event replay

Example unsafe outcome: Unnecessary abrupt response after the hazard ended

Control and evidence to examine: Original time preservation, expiry and cancellation tests

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0375 | E2 | source schedule row | part 3/16

Source p. 41

H02 Wrong lane or road level

Prompt: H02 Wrong lane or road level

Example unsafe outcome: Warning or priority applied to the wrong movement

Control and evidence to examine: Survey, coordinate checks and S07

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0376 | E2 | [source schedule row](#) | [part 4/16](#)

Source p. 41

H03 Signed false information

Prompt: H03 Signed false information

Example unsafe outcome: Incorrect action despite valid authentication

Control and evidence to examine: Plausibility, independent context and S27

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0377 | E2 | [source schedule row](#) | [part 5/16](#)

Source p. 41

H04 Missing participant

Prompt: H04 Missing participant

Example unsafe outcome: System assumes an unconnected person is absent

Control and evidence to examine: No absence inference and S15

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0378 | E2 | [source schedule row](#) | [part 6/16](#)

Source p. 41

H05 Shared communications failure

Prompt: H05 Shared communications failure

Example unsafe outcome: Redundant paths fail at the same time

Control and evidence to examine: Common cause analysis and S23

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0379 | E2 | [source schedule row](#) | [part 7/16](#)

Source p. 41

H06 Credential service outage

Prompt: H06 Credential service outage

Example unsafe outcome: Unsafe bypass of trust checks

Control and evidence to examine: Bounded offline policy and S25

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0380 | E2 | [source schedule row](#) | [part 8/16](#)

Source p. 41

H07 Correlated perception reports

Prompt: H07 Correlated perception reports

Example unsafe outcome: Artificially inflated confidence

Control and evidence to examine: Source lineage and S39

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0381 | E2 | [source schedule row](#) | [part 9/16](#)

Source p. 42

H08 Delayed remote command

Prompt: H08 Delayed remote command

Example unsafe outcome: Movement authorised in an obsolete situation

Control and evidence to examine: Command expiry, local constraints and S41

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0382 | E2 | [source schedule row](#) | [part 10/16](#)

Source p. 42

H09 Emergency delivery ambiguity

Prompt: H09 Emergency delivery ambiguity

Example unsafe outcome: Occupant believes help has been summoned when it has not

Control and evidence to examine: Distinct acceptance status and S32 to S33

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0383 | E2 | [source schedule row](#) | [part 11/16](#)

Source p. 42

H10 Software update mismatch

Prompt: H10 Software update mismatch

Example unsafe outcome: Previously compatible systems disagree

Control and evidence to examine: Version matrix and S30 to S31

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0384 | E2 | [source schedule row](#) | [part 12/16](#)

Source p. 42

H11 Previous owner access

Prompt: H11 Previous owner access

Example unsafe outcome: Location disclosure or unauthorised remote action

Control and evidence to examine: Transfer revocation and S34

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0385 | E2 | [source schedule row](#) | [part 13/16](#)

Source p. 42

H12 Congestion induced starvation

Prompt: H12 Congestion induced starvation

Example unsafe outcome: Warning deadline missed during peak traffic

Control and evidence to examine: Priority, admission control and S17

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0386 | E2 | [source schedule row](#) | [part 14/16](#)

Source p. 42

H13 Service retirement

Prompt: H13 Service retirement

Example unsafe outcome: Essential function disappears without a safe transition

Control and evidence to examine: Support declaration and S45

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0387 | E2 | [source schedule row](#) | [part 15/16](#)

Source p. 42

H14 Unclear service status

Prompt: H14 Unclear service status

Example unsafe outcome: Driver relies on unavailable connectivity

Control and evidence to examine: User comprehension and S48

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0388 | E2 | source schedule row | part 16/16

Source p. 42

H15 Malicious false reports

Prompt: H15 Malicious false reports

Example unsafe outcome: Legitimate road users are excluded from cooperation

Control and evidence to examine: Reviewed misbehaviour decisions and S46

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0389 | E3

Source p. 42

Safety argument structure

For every safety-relevant claim, the applicant shall state the top level claim, its operating assumptions, the reasoning connecting controls to risk reduction, the evidence for each control and remaining uncertainty. Arguments shall identify independence assumptions and information that can invalidate the conclusion. The evaluator shall challenge at least the source correctness assumption, the communication availability assumption, the receiver interpretation assumption and the fallback feasibility assumption. A list of implemented controls without evidence of their effectiveness is not a complete assurance argument.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0390 | E4

Source p. 42

Threat and privacy linkage

The threat analysis shall connect misuse of identity, message content, configuration and service administration to the hazard records. The privacy analysis shall connect data categories and recipient permissions to misuse or disclosure consequences. Conflicting controls shall be resolved explicitly; for example, accountability logging shall not justify unlimited retention of identifiable journeys.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex F | Evidence package and public record

CHECK 0391 | F1 | source schedule row | part 1/16

Source p. 43

E01 Application

Record: E01 Application

Minimum content: Applicant, object, claim and requested scope

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0392 | F1 | source schedule row | part 2/16

Source p. 43

E02 Binding profile

Record: E02 Binding profile

Minimum content: Complete Annex A package with controlled revisions

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0393 | F1 | source schedule row | part 3/16

Source p. 43

E03 Applicability

Record: E03 Applicability

Minimum content: Provision level decisions and reasons

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0394 | F1 | source schedule row | part 4/16

Source p. 43

E04 Architecture

Record: E04 Architecture

Minimum content: Interfaces, owners, dependencies and trust boundaries

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0395 | F1 | [source schedule row](#) | [part 5/16](#)

Source p. 43

E05 Risk analyses

Record: E05 Risk analyses

Minimum content: Hazard, threat, privacy and residual decisions

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0396 | F1 | [source schedule row](#) | [part 6/16](#)

Source p. 43

E06 Test plan

Record: E06 Test plan

Minimum content: Methods, scenarios, acceptance limits and sampling

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0397 | F1 | [source schedule row](#) | [part 7/16](#)

Source p. 43

E07 Equipment record

Record: E07 Equipment record

Minimum content: Tool versions, calibration and uncertainty

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0398 | F1 | [source schedule row](#) | [part 8/16](#)

Source p. 43

E08 Raw results

Record: E08 Raw results

Minimum content: Logs, captures, observations, hashes and time basis

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0399 | F1 | [source schedule row](#) | [part 9/16](#)

Source p. 43

E09 Analysis

Record: E09 Analysis

Minimum content: Reproducible calculations, exclusions and confidence

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0400 | F1 | [source schedule row](#) | [part 10/16](#)

Source p. 43

E10 Interoperability

Record: E10 Interoperability

Minimum content: Implementation pairs, diversity and compatibility results

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0401 | F1 | [source schedule row](#) | [part 11/16](#)

Source p. 43

E11 Human and field evidence

Record: E11 Human and field evidence

Minimum content: Participants, routes, exposure, conditions and limits

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0402 | F1 | [source schedule row](#) | [part 12/16](#)

Source p. 43

E12 Findings

Record: E12 Findings

Minimum content: Failures, cause analysis, corrections and regression

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0403 | F1 | source schedule row | part 13/16

Source p. 43

E13 Decision

Record: E13 Decision

Minimum content: Independent review, outcome and authorised wording

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0404 | F1 | source schedule row | part 14/16

Source p. 43

E14 Operational plan

Record: E14 Operational plan

Minimum content: Monitoring, incident response, support and retirement

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0405 | F1 | source schedule row | part 15/16

Source p. 43

E15 Change record

Record: E15 Change record

Minimum content: Release history, impact assessments and reassessment

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0406 | F1 | part 16/16

Source p. 43

Controlled evidence index

Every index entry shall have an identifier, revision, owner, creation date, access classification, integrity identifier, retention rule and link to applicable requirements. A missing record shall be justified by the assessed boundary rather than left ambiguous.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0407 | F2

Source p. 43

Assessment report structure

The report shall state its status and conclusion first, followed by scope, configurations, profile, limitations, methods, quantitative findings, qualitative findings, deviations, nonconformities, corrective actions and decision. It shall state whether the system was operated with production security and whether field endpoints were operational or simulated. The report shall identify the evidence reviewed directly and the evidence supplied by another party. It shall disclose limitations that affect independence or replication. A digest or summary may accompany the report but shall not replace the detailed evidence needed for authorised review.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0408 | F3 | source schedule row | part 1/15

Source p. 44

Record identifier

Public field: Record identifier

Required value: Unique controlled identifier assigned by an authorised scheme process

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0409 | F3 | source schedule row | part 2/15

Source p. 44

Status

Public field: Status

Required value: Pilot, positive scoped decision, suspended, withdrawn or other defined status

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0410 | F3 | source schedule row | part 3/15

Source p. 44

Standard

Public field: Standard

Required value: IAF CVES and the exact adopted edition or draft revision

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0411 | F3 | [source schedule row](#) | [part 4/15](#)

Source p. 44

Object

Public field: Object

Required value: V, C, I, S or E with product or deployment description

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0412 | F3 | [source schedule row](#) | [part 5/15](#)

Source p. 44

Configuration

Public field: Configuration

Required value: Public version identifier linked to the detailed baseline

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0413 | F3 | [source schedule row](#) | [part 6/15](#)

Source p. 44

Modules

Public field: Modules

Required value: Assessed modules and explicit unavailable or excluded capabilities

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0414 | F3 | [source schedule row](#) | [part 7/15](#)

Source p. 44

Profile

Public field: Profile

Required value: Binding profile identifier and revision

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0415 | F3 | [source schedule row](#) | [part 8/15](#)

Source p. 44

Domain

Public field: Domain

Required value: Geographic and operational limits understandable to users

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0416 | F3 | [source schedule row](#) | [part 9/15](#)

Source p. 44

Evidence

Public field: Evidence

Required value: Available descriptors from Annex D and observation period

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0417 | F3 | [source schedule row](#) | [part 10/15](#)

Source p. 44

Performance

Public field: Performance

Required value: Service class and measured results where appropriate, with test conditions

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0418 | F3 | [source schedule row](#) | [part 11/15](#)

Source p. 44

Decision

Public field: Decision

Required value: Date, responsible decision authority and scope

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0419 | F3 | source schedule row | part 12/15

Source p. 44

Limitations

Public field: Limitations

Required value: Dependencies, unverified conditions and supported combinations

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0420 | F3 | source schedule row | part 13/15

Source p. 44

Lifecycle

Public field: Lifecycle

Required value: Support declaration and change or reassessment conditions

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0421 | F3 | source schedule row | part 14/15

Source p. 44

Current status source

Public field: Current status source

Required value: Authoritative status location if an operational registry exists

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0422 | F3 | part 15/15

Source p. 44

Connectivity assurance record fields

The record shall not publish personal route histories, private keys, detailed vulnerabilities or confidential infrastructure credentials. A restricted evidence identifier may be used instead. The machine-readable representation shall use a documented schema and distinguish unknown, not applicable and not assessed values.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0423 | F4

Source p. 44

Permitted claim pattern

After adoption and a positive authorised decision, a suitable statement is: Evaluated against IAF CVES First Edition for the identified object, modules, profile and operating domain stated in the assessment record. The specific record shall accompany the claim. Before adoption, the wording shall instead identify a pilot evaluation against IAF CVES Working Draft 0.2 and state that it is not an issued conformity certification. This document supplies the record structure but does not create an actual assessment result.

RESULT**FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

Requirements & evidence

Annex G | Change, incident and reassessment controls

CHECK 0424 | G1 | source schedule row | part 1/13

Source p. 45

New vehicle variant or antenna installation

Trigger: New vehicle variant or antenna installation

Minimum review and evidence: RF performance, host resource effects and integration risks

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0425 | G1 | source schedule row | part 2/13

Source p. 45

Message schema or version change

Trigger: Message schema or version change

Minimum review and evidence: Semantics, all affected pairs and invalid input handling

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0426 | G1 | source schedule row | part 3/13

Source p. 45

New radio path or network operator

Trigger: New radio path or network operator

Minimum review and evidence: Domain, timing, outage, roaming and common causes

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0427 | G1 | source schedule row | part 4/13

Source p. 45

New city or controller interface

Trigger: New city or controller interface

Minimum review and evidence: Authority, geometry, signal semantics and field acceptance

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0428 | G1 | source schedule row | part 5/13

Source p. 45

Trust anchor or credential policy change

Trigger: Trust anchor or credential policy change

Minimum review and evidence: Permission, mixed fleet, expiry and revocation tests

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0429 | G1 | source schedule row | part 6/13

Source p. 45

Security vulnerability or compromise

Trigger: Security vulnerability or compromise

Minimum review and evidence: Exposure, containment, correction and regression

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0430 | G1 | source schedule row | part 7/13

Source p. 45

Software or AI model release

Trigger: Software or AI model release

Minimum review and evidence: Behavioural impact, risk review and affected test suite

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0431 | G1 | source schedule row | part 8/13

Source p. 45

Cloud region or provider migration

Trigger: Cloud region or provider migration

Minimum review and evidence: Identity, data route, failover and service correctness

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0432 | G1 | source schedule row | part 9/13

Source p. 45

Road geometry or RSU location change

Trigger: Road geometry or RSU location change

Minimum review and evidence: Survey, map binding, relevance and installation checks

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0433 | G1 | source schedule row | part 10/13

Source p. 45

New personal data purpose

Trigger: New personal data purpose

Minimum review and evidence: Necessity, permissions, privacy and user information

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0434 | G1 | source schedule row | part 11/13

Source p. 45

Material field performance deterioration

Trigger: Material field performance deterioration

Minimum review and evidence: Scope validity, fault cause and decision status

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0435 | G1 | source schedule row | part 12/13

Source p. 45

Network or commercial service withdrawal

Trigger: Network or commercial service withdrawal

Minimum review and evidence: Support commitments, migration and fallback

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0436 | G1 | source schedule row | part 13/13

Source p. 45

Safety incident or credible near miss

Trigger: Safety incident or credible near miss**Minimum review and evidence:** Hazard assumptions, affected population and immediate controls**RESULT** **FINDING / ACTION ID** **EVIDENCE / OBSERVED RESULT / N/A RATIONALE****CHECK 0437 | G2**

Source p. 45

Change decision

The applicant shall classify the change as having no assessed behaviour effect, a bounded effect requiring partial reassessment, or a major effect requiring a new scope or full affected programme. The evaluator shall review the classification. The first category shall have positive evidence of no effect and shall not be selected solely because the release is described as minor. Partial reassessment shall include shared dependencies and regression effects beyond the directly changed component. The decision record shall identify which evidence remains valid, which is replaced and which public fields change. A new version identifier shall be assigned whenever the assessed baseline changes.

RESULT **FINDING / ACTION ID** **EVIDENCE / OBSERVED RESULT / N/A RATIONALE****CHECK 0438 | G3**

Source p. 46

Incident workflow

On receipt of a credible incident, the responsible operator shall determine whether immediate containment is necessary, preserve relevant evidence and identify the potentially affected population. Safety-relevant containment shall proceed without waiting for commercial agreement between suppliers. Notifications shall follow the obligations register and operating agreements. The incident record shall include detection time with uncertainty, symptom, affected service and profile, initial severity, containment, communication, cause analysis, correction, regression evidence, restoration decision and effectiveness review. Exact reporting and response deadlines shall be defined by risk and applicable duties before deployment.

RESULT **FINDING / ACTION ID** **EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

Requirements & evidence

CHECK 0439 | G4

Source p. 46

Restoration criteria

Restoration shall require verification that the unsafe or unauthorised condition is controlled, the correction is deployed to the required population, compatibility is preserved, monitoring is active and users receive any changed instructions. The decision authority shall update a suspended public status only after reviewing sufficient evidence.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex H | Emerging capability extension requirements

CHECK 0440 | H1 | part 1/13

Source p. 47

Extension package

Every extension shall identify its purpose, technical maturity, supported operating domain, changed assumptions, data and authority boundaries, application safety case, test methods, performance limits, interoperability impact and exit strategy. Demonstrations and prototypes shall remain distinguishable from deployable capability.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0441 | H1 | source schedule row | part 2/13

Source p. 47

Next generation terrestrial radio

Capability: Next generation terrestrial radio

Questions that the extension shall resolve: Which interfaces change, which previous participants remain supported and how are congestion and mixed fleets tested

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0442 | H1 | source schedule row | part 3/13

Source p. 47

Satellite or other nonterrestrial links

Capability: Satellite or other nonterrestrial links

Questions that the extension shall resolve: What are measured coverage, acquisition, delay, blockage and endpoint acceptance limits

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0443 | H1 | source schedule row | part 4/13

Source p. 47

Integrated sensing and communications

Capability: Integrated sensing and communications

Questions that the extension shall resolve: How are sensing and communication resources shared and how are correlated failures controlled

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0444 | H1 | source schedule row | part 5/13

Source p. 47

AI-based message interpretation

Capability: AI-based message interpretation

Questions that the extension shall resolve: What bounds its output, what data supports evaluation and what happens outside the validated distribution

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0445 | H1 | source schedule row | part 6/13

Source p. 47

Federated or distributed learning

Capability: Federated or distributed learning

Questions that the extension shall resolve: How are participants authorised, poisoning detected, personal data protected and updates approved

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0446 | H1 | source schedule row | part 7/13

Source p. 47

Cooperative perception

Capability: Cooperative perception

Questions that the extension shall resolve: How are source age, uncertainty, duplication and common observation lineage preserved

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0447 | H1 | source schedule row | part 8/13

Source p. 47

Digital twins and simulation

Capability: Digital twins and simulation

Questions that the extension shall resolve: Which physical behaviours are validated, what model error remains and what cannot be inferred

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0448 | H1 | source schedule row | part 9/13

Source p. 47

Remote assistance and operation

Capability: Remote assistance and operation

Questions that the extension shall resolve: Who has current authority, which information is fresh and how does local control respond to lost contact

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0449 | H1 | source schedule row | part 10/13

Source p. 47

Quantum-resistant migration

Capability: Quantum-resistant migration

Questions that the extension shall resolve: How are larger messages, mixed credentials, processing cost and downgrade attempts handled

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0450 | H1 | source schedule row | part 11/13

Source p. 47

Dataspaces and shared mobility records

Capability: Dataspaces and shared mobility records

Questions that the extension shall resolve: What defines purpose, access, semantic compatibility, retention and withdrawal

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0451 | H1 | source schedule row | part 12/13

Source p. 47

Connected energy and charging services

Capability: Connected energy and charging services

Questions that the extension shall resolve: How are scheduling and payment separated from electrical protection and vehicle safety authority

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0452 | H1 | source schedule row | part 13/13

Source p. 47

Disaster resilient connectivity

Capability: Disaster resilient connectivity

Questions that the extension shall resolve: Which essential services survive, how are priorities enforced and what is unavailable

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0453 | H2

Source p. 47-48

Evidence maturity

An extension record shall identify whether evidence comes from analytical reasoning, simulation, laboratory demonstration, controlled site trials or deployed operation. A capability demonstrated only in simulation shall not be described as proven under real traffic conditions. For capabilities that influence safety, the programme shall examine at least one relevant domain boundary, one input integrity failure and one common cause failure. The applicant shall define stop criteria before exposing the capability to broader operation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0454 | H3

Source p. 48

Compatibility and change control

Extensions shall not modify the meaning of existing fields or identifiers without versioning and explicit receiver behaviour. Unsupported participants shall receive a safe limited service or an unambiguous refusal. A fallback to a previous algorithm or message version shall not bypass the current security policy.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0455 | H4

Source p. 48

Future development position

The proposed IAF direction is to evaluate new technology through observable service outcomes, source credibility, interoperability and controlled failure behaviour. Future capabilities may broaden coverage and utility, but forecasts shall remain forecasts until the required evidence is obtained. Publication of a roadmap shall not create a present conformity entitlement.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Findings & corrective action

Use one record per finding. Link every affected checklist ID and source clause. Add identified continuation records for further findings. Preserve the original result and document retest evidence before closure.

CORRECTIVE ACTION RECORD 1

FINDING ID**CHECK / CLAUSE IDS****SOURCE SEVERITY / GATE****OBSERVATION, REQUIREMENT AND OBJECTIVE EVIDENCE****IMMEDIATE CONTAINMENT / AFFECTED CONFIGURATIONS****ROOT CAUSE AND CORRECTIVE ACTION****RESPONSIBLE OWNER / DUE DATE****RETEST EVIDENCE / REVIEWER / CLOSURE DATE**

CORRECTIVE ACTION RECORD 2

FINDING ID**CHECK / CLAUSE IDS****SOURCE SEVERITY / GATE****OBSERVATION, REQUIREMENT AND OBJECTIVE EVIDENCE****IMMEDIATE CONTAINMENT / AFFECTED CONFIGURATIONS****ROOT CAUSE AND CORRECTIVE ACTION****RESPONSIBLE OWNER / DUE DATE****RETEST EVIDENCE / REVIEWER / CLOSURE DATE**

Assessment conclusion & review

Summarize the assessed scope and source-specific decision. Counts are manual cross-checks and do not override an unresolved requirement, critical gate, score cap or mandatory evidence condition.

APPLICABLE CHECKS

PASS

FAIL

NOT DEMONSTRATED

NOT APPLICABLE

OPEN CRITICAL GATES / BLOCKED CONFIGURATIONS / REASSESSMENT TRIGGERS

ASSESSMENT LIMITATIONS, EXCLUSIONS AND UNRESOLVED EVIDENCE

SOURCE-SPECIFIC CONCLUSION AND SUPPORTING DECISION RECORD

- ☐ All applicable check records and source dependencies have been reviewed.
- ☐ No unresolved critical failure is being accepted through averaging or a general pass count.
- ☐ The conclusion is restricted to the identified scope, configuration, evidence and draft status.

ASSESSOR NAME / ROLE

INDEPENDENT REVIEWER NAME / ROLE

ASSESSOR SIGN-OFF (TYPED NAME)

REVIEWER SIGN-OFF (TYPED NAME)

DATE

DATE

Sign-off fields accept typed names; they are not cryptographic digital-signature fields. Apply the organization's approved signing process where a formal signature is required. Final conformity, certification or label authorization remains subject to the source scheme and its adoption controls.

Continuation & additional evidence

Identify every continuation record and its parent checklist or finding. Additional sheets may be retained as separately identified evidence; preserve the link in the parent field.

CHECK / FINDING ID AND CONTINUATION REFERENCE

ADDITIONAL EVIDENCE, MEASUREMENTS, RATIONALE OR VERIFICATION

CHECK / FINDING ID AND CONTINUATION REFERENCE

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ADDITIONAL EVIDENCE, MEASUREMENTS, RATIONALE OR VERIFICATION