

IAF / TECHNICAL ASSURANCE WORKBOOK

Connected Mobility and Human Experience Requirements

Assessment checklist

SOURCE-REFERENCED / INTERACTIVE PDF

First Edition | Technical Working Draft
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

255

check records

31

mapped sections

29

source pages

Scope, applicability & evidence rules

MOBILITY SERVICE / VEHICLE / INFRASTRUCTURE MODULES

OPERATING DOMAIN, GEOGRAPHY AND NETWORK INTERFACES

SOFTWARE, CONFIGURATION AND CONNECTIVITY PROFILES

DRIVER, PASSENGER AND VULNERABLE-ROAD-USER POPULATIONS

ACCESSIBILITY, HUMAN-INTERACTION AND DEGRADED MODES

REQUIRED SCENARIOS, METRICS AND EVIDENCE-REGISTER REVISION

APPLICABILITY REGISTER / EXCLUSIONS / APPROVING REVIEWER

STANDARD-SPECIFIC ASSESSMENT RULE

Select the actual modules, operating domain, user population and installed functions. Verify required scenarios, acceptance criteria and evidence registers together; retain unresolved functions as not demonstrated.

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.

SOURCE SECTION	CHECKS	PDF PAGE
1 Scope and purpose	4	6
2 Conventions and application rules	6	7
3 Terms and definitions	1	8
4 Assessment objects and module selection	10	8
5 Governance and accountability	6	11
6 Operating conditions and dependency contracts	7	12
7 Human needs and inclusive design	7	14
8 Driving interaction and essential controls	8	16
9 Displays and multimodal communication	7	18
10 Driver state and transitions of responsibility	8	20
11 Passenger experience and physical ergonomics	7	22
12 V2X interoperability	9	23
13 Cooperative functions and trustworthy information	8	26
14 City and infrastructure compatibility	8	28
15 Connected journeys and shared mobility	7	30
16 Charging and energy service experience	7	31
17 Artificial intelligence and adaptive interfaces	8	33
18 Service resilience and degraded operation	7	35
19 Data use and personal control	7	37
20 Integration and software change	7	39
21 Validation and evidence quality	8	40
22 Field monitoring and incident response	6	42
23 Assessment and conformity decisions	7	44
24 Public claims and assessment records	6	46
25 Improvement and end of support	6	47
26 Adoption and maintenance of the standard	4	49
Annex A Required test scenarios	26	50
Annex B Measures and proposed acceptance criteria	19	57
Annex C Mandatory evidence register	18	63
Annex D Assessment statement and capability record	9	68

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.

SOURCE SECTION	CHECKS	PDF PAGE
Annex E Pilot validation of the standard	7	71

Source control & use of the workbook

CONTROLLED SOURCE

IAF_Smart_Mobility_First_Edition_Corporate(1).pdf

First Edition | Technical Working Draft

Source length: 29 pages. Checklist revision: 1.0, dated 15 September 2026.

SOURCE SHA-256

93b21a9ffdb528a6315ff31b16391bf8897e5db93fb12ce1b92bf264b3d97a16

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 F

Requirements & evidence

1 | Scope and purpose

CHECK 0001 | 1.2

Source p. 4

Scope and purpose

The scope includes passenger cars, commercial vehicles, buses, powered two and three wheelers, shared fleets, automated passenger services, aftermarket mobility products, roadside equipment, mobility applications and service platforms. Requirements shall be applied to the declared assessment object and its interfaces. A subsystem result shall not be represented as whole vehicle conformity.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0002 | 1.4

Source p. 4

Scope and purpose

This standard does not by itself establish crashworthiness, electrical protection, structural integrity, comprehensive cybersecurity assurance, legal permission for automated driving or compliance with all applicable market requirements. The responsible organization shall manage these interfaces and provide the safety evidence necessary for functions assessed here.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0003 | 1.5

Source p. 4

Scope and purpose

A road user shall not need a compatible phone, account, wearable or connected vehicle to receive the baseline protection required by the assessed function. Connected capability may improve information, but absence of a signal shall not be interpreted as absence of a person, vehicle or hazard.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0004 | 1.6

Source p. 4

Scope and purpose

Conformity shall be specific to a product or service version, module set, operating conditions, market and deployment configuration. Neither geographic universality nor compatibility with untested systems shall be implied.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

2 | Conventions and application rules

CHECK 0005 | 2.1

Source p. 4

Conventions and application rules

"Shall" expresses a requirement; "should" expresses a recommendation; "may" expresses permission; and "can" describes capability or possibility. A note or example does not create an additional requirement unless explicitly stated.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0006 | 2.2

Source p. 4

Conventions and application rules

A conditional requirement becomes mandatory when the corresponding function is supplied, enabled, advertised or reasonably relied upon within the declared scope. A function shall not be excluded merely because its implementation or test evidence is incomplete.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0007 | 2.3

Source p. 4

Conventions and application rules

Each requirement shall have an assessment status of pass, fail, not applicable or not demonstrated. A not applicable decision shall identify the functional reason and shall be accepted by the assessor. Lack of evidence shall be recorded as not demonstrated, not as not applicable.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0008 | 2.4

Source p. 4

Conventions and application rules

The responsible organization shall maintain a market requirements register. Where a binding obligation and this document cannot both be satisfied, the conflict shall be recorded and the affected conformity claim shall be restricted or withheld. This standard does not authorize departure from applicable law.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0009 | 2.5

Source p. 4

Conventions and application rules

A claimed benefit shall have a defined baseline, measurement method, operating conditions and uncertainty statement. A demonstration, simulation, planned capability or design intention shall not be presented as verified field performance.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0010 | 2.6

Source p. 5

Conventions and application rules

Where a requirement calls for a risk-derived limit, that limit shall be justified and accepted before assessment data are examined. Annex B minimum criteria shall not be weakened by choosing a more permissive product limit. A tighter limit shall apply when needed for safe operation.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

3 | Terms and definitions

CHECK 0011 | 3.9

Source p. 5

Critical task

A task for which failure, delay, misunderstanding or unintended activation can expose a person to serious harm. Criticality shall be established by the hazard analysis, not by commercial importance.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

4 | Assessment objects and module selection

CHECK 0012 | 4.1 | part 1/7

Source p. 6

Assessment objects and module selection

Every assessment shall include a common core covering scope, governance, dependencies, people affected, validation, change control, claims and service continuity. The depth of evidence shall correspond to the assessment object and risk; small organizational size shall not remove an applicable product requirement.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0013 | 4.1 | [source schedule row](#) | [part 2/7](#)

Source p. 6

H Human experience

Module: H Human experience

Assessment focus: Controls, information, attention, ergonomics and accessibility

Mandatory application trigger: A human interface or passenger environment is in scope

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0014 | 4.1 | [source schedule row](#) | [part 3/7](#)

Source p. 6

X Cooperative connectivity

Module: X Cooperative connectivity

Assessment focus: Message interpretation, timing, trust and cross implementation behaviour

Mandatory application trigger: A V2X or cooperative capability is supplied or claimed

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0015 | 4.1 | [source schedule row](#) | [part 4/7](#)

Source p. 6

C City integration

Module: C City integration

Assessment focus: Roads, roadside data, geofences, curbs and urban dependencies

Mandatory application trigger: City readiness or infrastructure integration is claimed

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0016 | 4.1 | [source schedule row](#) | [part 5/7](#)

Source p. 6

J Journey services

Module: J Journey services

Assessment focus: Planning, booking, handovers and shared access

Mandatory application trigger: A connected journey or shared mobility service is supplied

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0017 | 4.1 | source schedule row | part 6/7

Source p. 6

E Energy interaction

Module: E Energy interaction

Assessment focus: Charging discovery, access, payment and session continuity

Mandatory application trigger: Charging or energy service interaction is supplied

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0018 | 4.1 | source schedule row | part 7/7

Source p. 6

A Automated interaction

Module: A Automated interaction

Assessment focus: Driving responsibility, remote assistance and passenger fallback

Mandatory application trigger: A function performs a driving task or uses remote assistance

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0019 | 4.3

Source p. 6

Assessment objects and module selection

A component assessment shall identify integration assumptions and unverified vehicle level outcomes. For example, a communication unit can demonstrate correct message processing without demonstrating that a vehicle warning is understandable or timely for a driver.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0020 | 4.4

Source p. 6

Assessment objects and module selection

Module omission shall appear in the capability record. A vehicle without cooperative connectivity may obtain a scoped human experience assessment, but shall not claim V2X interoperability or comprehensive IAF Smart Mobility coverage.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0021 | 4.5

Source p. 6

Assessment objects and module selection

The assessment boundary shall include all external dependencies that can affect a claimed outcome. Ownership by another supplier shall not justify ignoring an interface failure. The evidence may combine supplier tests and integration tests where their applicability is demonstrated.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

5 | Governance and accountability

CHECK 0022 | 5.1

Source p. 6

Governance and accountability

The responsible organization shall appoint accountable owners for system behaviour, human factors, accessibility, cooperative interfaces, service operations and evidence management. One person may hold multiple roles if competence and independent review are maintained.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0023 | 5.2

Source p. 7

Governance and accountability

An integrated risk register shall address harm from confusing interaction, stale data, loss of access, accessibility failure, automation misunderstanding, connectivity loss, privacy misuse and conflicts between service providers. Each risk shall have a control owner and verification evidence.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0024 | 5.3

Source p. 7

Governance and accountability

Product decisions shall prioritize safe operation and essential user access over engagement, advertisement, subscription conversion, data collection or completion of a commercial transaction. Revenue objectives shall not justify overriding a critical control.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0025 | 5.4

Source p. 7

Governance and accountability

Suppliers shall provide the interface specifications, version information, change notices and evidence needed to assess integration. Commercial confidentiality may limit public disclosure, but shall not prevent an authorized assessor from examining necessary evidence under suitable confidentiality arrangements.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0026 | 5.5

Source p. 7

Governance and accountability

The organization shall maintain a user feedback and complaint process that accepts reports of confusing behaviour, inaccessible functions and service failures. Reports shall be linked to product configuration where practicable without unnecessary identification of the reporting person.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0027 | 5.6

Source p. 7

Governance and accountability

The team making the conformity decision shall be independent of the team responsible for achieving the measured product result. Conflicts of interest, competence and decision authority shall be documented.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

6 | Operating conditions and dependency contracts

CHECK 0028 | 6.1

Source p. 7

Operating conditions and dependency contracts

Each assessed function shall have an operating domain covering road geometry, speed range, traffic mix, climatic conditions, light, visibility, positioning quality, network conditions, languages and intended user groups. Unsupported conditions shall be identifiable before reliance on the function becomes unsafe.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0029 | 6.2

Source p. 7

Operating conditions and dependency contracts

The organization shall classify every external dependency as essential, performance enhancing or convenience only. The classification shall be supported by analysis of what happens when the dependency is absent, incorrect, delayed or maliciously manipulated.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0030 | 6.3

Source p. 7

Operating conditions and dependency contracts

A service contract shall define data meaning, units, coordinate system, reference time, uncertainty, source authority, version, validity period, error responses, load limits and degraded operation. Shared assumptions shall be tested at both sides of the interface.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0031 | 6.4

Source p. 7

Operating conditions and dependency contracts

For a time critical use case, the organization shall allocate a complete timing budget from observation to required action. Sensing, processing, communication, user response where applicable, actuation and a justified safety margin shall fit within the available action time. Clock uncertainty and data age shall be included.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0032 | 6.5

Source p. 7

Operating conditions and dependency contracts

Different use cases shall not inherit a single universal latency target without justification. A traffic advisory, imminent hazard warning and cooperative motion function have different failure consequences and shall have separately justified limits and fallback behaviour.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0033 | 6.6

Source p. 7

Operating conditions and dependency contracts

Limits shall cover tail behaviour and loss bursts as well as average performance. Recovery from invalid time, location or identity information shall require verified restoration, not simply the receipt of another message.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0034 | 6.7

Source p. 7

Operating conditions and dependency contracts

At runtime, essential assumptions shall be monitored where technically feasible. If an essential assumption cannot be monitored, the organization shall provide evidence that the residual dependency risk is acceptably controlled and shall restrict the claim accordingly.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

7 | Human needs and inclusive design

CHECK 0035 | 7.1

Source p. 8

Human needs and inclusive design

User research shall include first time and experienced users, older adults, a representative range of body sizes, relevant languages and people with sensory, motor or cognitive access needs. Passenger services shall include people who do not drive and those who do not possess a smartphone or payment card.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0036 | 7.2

Source p. 8

Human needs and inclusive design

The organization shall maintain a task inventory from planning and vehicle entry to driving or riding, energy replenishment, emergency response and journey completion. Each task shall identify the user, context, required abilities, foreseeable errors and recovery path.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0037 | 7.3

Source p. 8

Human needs and inclusive design

Essential information shall not depend on colour, sound, speech, touch precision or memory alone where an equivalent accessible channel is feasible. The alternative shall convey the same necessary meaning within the available response time.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0038 | 7.4

Source p. 8

Human needs and inclusive design

A reasonable accommodation shall not silently remove a safety relevant warning. Where an adaptation changes safety behaviour, the change shall be explained and validated with the intended users and vehicle configuration.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0039 | 7.5

Source p. 8

Human needs and inclusive design

Accessibility claims shall identify the supported needs and the conditions tested. An overall usability average shall not conceal a failure that prevents a declared user group from completing an essential task.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0040 | 7.6

Source p. 8

Human needs and inclusive design

Personalization shall provide a stable default, a comprehensible reset and protection against unsafe transfer of another person's settings. Rental, fleet and shared vehicles shall support an understandable first use experience without assuming previous brand knowledge.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0041 | 7.7

Source p. 8

Human needs and inclusive design

Participants shall give informed consent for human studies. Hazardous scenarios shall use simulation or controlled facilities with safeguards. Participation involving children or vulnerable people shall follow an independently reviewed protection plan appropriate to the study.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

8 | Driving interaction and essential controls

CHECK 0042 | 8.1

Source p. 8

Driving interaction and essential controls

The organization shall define essential controls for each vehicle category. Where fitted, direction indicators, horn, hazard warning, windscreen clearing, urgent assistance and emergency exit controls shall be assessed. Steering, braking, acceleration and direction selection shall be included wherever their interaction design is within scope.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0043 | 8.2

Source p. 8

Driving interaction and essential controls

A driver shall be able to locate and operate an essential control without navigating a changing menu, dismissing an advertisement, completing account authentication or using a network service. Its function and location shall remain predictable across normal operating states.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0044 | 8.3

Source p. 8

Driving interaction and essential controls

Essential controls used during driving shall provide a persistent and discriminable means of activation, with tactile identification or another independently validated means that does not require prolonged visual search. A temporary touchscreen element alone shall not satisfy this requirement.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0045 | 8.4

Source p. 8

Driving interaction and essential controls

Loss or restart of the main entertainment display shall not remove the ability to maintain vehicle control, restore essential visibility, signal an immediate hazard or perform the validated emergency exit procedure. A common electrical failure shall be addressed in the system safety evidence.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0046 | 8.5

Source p. 9

Driving interaction and essential controls

Manual text composition, non-driving video and other tasks that fail the moving vehicle attention criteria shall be unavailable to the driver while movement is possible. Passenger access shall be allowed only when driver distraction and mistaken user assignment are controlled.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0047 | 8.6

Source p. 9

Driving interaction and essential controls

Allowed secondary tasks shall be interruptible without penalty, loss of essential context or forced restart of a long sequence. On resumption, the interface shall show the current state without falsely implying that an unfinished action succeeded.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0048 | 8.7

Source p. 9

Driving interaction and essential controls

Critical actions shall have proportionate protection against unintended activation. A confirmation shall not delay a time critical emergency action. Repeated taps, gloves, vibration, moisture, steering angle and adjacent controls shall be considered in the validation.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0049 | 8.8

Source p. 9

Driving interaction and essential controls

Voice and gesture interfaces shall not be presumed distraction free. Their cognitive demand, ambiguity, correction effort and effect on driving shall be measured. A failed voice interaction shall offer a safe recovery path without forcing the driver into a complex manual task.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

9 | Displays and multimodal communication

CHECK 0050 | 9.1

Source p. 9

Displays and multimodal communication

Information shall communicate current state, required action and relevant limitation using language and symbols understood by the intended users. The interface shall distinguish available, active, restricted, failed and completed states where confusing them could affect behaviour.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0051 | 9.2

Source p. 9

Displays and multimodal communication

Safety relevant information shall take precedence over navigation convenience, entertainment, promotion and nonurgent messages. The system shall manage simultaneous warnings so that a lower priority message does not obscure, delay or contradict a critical instruction.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0052 | 9.3

Source p. 9

Displays and multimodal communication

Text, symbols and controls shall remain legible at the intended viewing distances and angles under the declared light conditions. Tests shall include darkness, glare, changing ambient light and commonly used corrective or tinted eyewear where relevant. Size and contrast declarations alone shall not replace user performance evidence.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0053 | 9.4

Source p. 9

Displays and multimodal communication

The organization shall specify visual, acoustic and haptic signal limits, including intensity, pattern, duration and escalation. Signals shall be distinguishable without creating startle, pain, masking of environmental warnings or avoidable sensory overload.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0054 | 9.5

Source p. 9

Displays and multimodal communication

Navigation and augmented displays shall distinguish a proposed route from a legal permission or guaranteed safe path. Misregistration, stale overlays and obstructed visibility shall be detected or mitigated. A projected line shall not imply that a pedestrian or oncoming vehicle has yielded.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0055 | 9.6

Source p. 9

Displays and multimodal communication

A message about an external service shall distinguish confirmed information from prediction and unavailable information. "No hazard detected" shall not be used to imply that all hazards have been excluded. An unknown state shall not be displayed as a favourable state.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0056 | 9.7

Source p. 9

Displays and multimodal communication

Unit changes, market localization and language changes shall not alter safety meaning. Mixed language fallback and truncated translations shall be tested. A critical control shall remain discoverable during a language mismatch.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

10 | Driver state and transitions of responsibility

CHECK 0057 | 10.1

Source p. 10

Driver state and transitions of responsibility

The interface shall make clear who is responsible for controlling the vehicle and supervising the environment in each operating mode. Marketing names, animation and hands-free presentation shall not imply a capability beyond the validated function.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0058 | 10.2

Source p. 10

Driver state and transitions of responsibility

Mode activation, restriction, transition and termination shall have distinct feedback. A user shall not need to infer responsibility solely from a subtle colour change or a message displayed on an obscured screen.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0059 | 10.3

Source p. 10

Driver state and transitions of responsibility

Where driver monitoring is used, its operating limits shall cover head position, eyewear, illumination, relevant variation in appearance and sensor obstruction. A monitoring failure shall be distinguishable from a confirmed attentive state.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0060 | 10.4

Source p. 10

Driver state and transitions of responsibility

A request to resume driving shall allow a time and interaction sequence justified by the scenario, user state and available risk margin. The organization shall not use one generic takeover time for all situations. If timely user response is not credible, a validated system fallback shall control the risk.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0061 | 10.5

Source p. 10

Driver state and transitions of responsibility

Driver monitoring performance shall be evaluated for both missed detections and nuisance interventions. Repeated false alerts, workarounds induced by poor usability and foreseeable misuse shall be considered in the risk assessment.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0062 | 10.6

Source p. 10

Driver state and transitions of responsibility

A no-response strategy shall be defined for every transition requiring human action. A statement that the driver remains responsible shall not replace the engineering analysis of predictable nonresponse.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0063 | 10.7

Source p. 10

Driver state and transitions of responsibility

In services without a driver expected to take control, passengers shall receive clear information on stopping, assistance, route changes and evacuation. Remote assistance and remote driving shall be identified as different functions with different authority and timing requirements.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0064 | 10.8

Source p. 10

Driver state and transitions of responsibility

Remote personnel shall have authenticated authority, adequate situational information and a defined workload limit. Loss of the remote link shall invoke a validated vehicle response. Passengers shall not be assigned an unexpected driving task as a fallback.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

11 | Passenger experience and physical ergonomics

CHECK 0065 | 11.1

Source p. 10

Passenger experience and physical ergonomics

The organization shall define the anthropometric population and the seating, reach, visibility, ingress and egress conditions covered by the design. Vehicle adaptations and special use configurations shall be assessed separately where they change these conditions.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0066 | 11.2

Source p. 10

Passenger experience and physical ergonomics

Controls, displays and storage used during movement shall not require unstable posture, interference with restraints or foreseeable contact with hazardous surfaces. Adjustment ranges shall be usable with the intended clothing, footwear and assistive devices.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0067 | 11.3

Source p. 10

Passenger experience and physical ergonomics

Passenger comfort evaluation shall include relevant vibration, acceleration, jerk, thermal conditions, airflow, noise, seating pressure and motion sickness symptoms. The route, exposure duration, load, speed and environmental conditions shall be recorded with subjective responses.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0068 | 11.4

Source p. 10

Passenger experience and physical ergonomics

Comfort claims shall identify their comparison baseline and limitations. A single comfort score shall not conceal a harmful exposure or an accessibility failure. Reducing discomfort shall not justify delayed hazard avoidance or reduced control authority.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0069 | 11.5

Source p. 11

Passenger experience and physical ergonomics

Passenger interfaces shall support seat and cabin identification, journey confirmation, stop requests and emergency assistance as applicable. Critical passenger requests shall receive feedback even when the main entertainment interface or personal device is unavailable.

RESULT	Select result	FINDING / ACTION ID	
---------------	--	----------------------------	----------------------

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0070 | 11.6

Source p. 11

Passenger experience and physical ergonomics

Automated motion shall be communicated with sufficient context for passengers to understand an unusual stop, reroute or service interruption. The communication shall avoid unjustified assurances that the environment is safe.

RESULT	Select result	FINDING / ACTION ID	
---------------	--	----------------------------	----------------------

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0071 | 11.7

Source p. 11

Passenger experience and physical ergonomics

Where occupancy or child presence functions are supplied, the organization shall define detection scope, notification path, failure handling and protection against lock-in. Emergency exit capability shall not depend solely on a smartphone, a remote server or a subscription.

RESULT	Select result	FINDING / ACTION ID	
---------------	--	----------------------------	----------------------

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

12 | V2X interoperability

CHECK 0072 | 12.1

Source p. 11

V2X interoperability

The organization shall maintain a versioned interoperability profile for every claimed service. It shall define message syntax, semantics, mandatory and optional fields, units, coordinate frames, time references, identifiers, trust processing and behaviour for unknown fields or versions.

RESULT	Select result	FINDING / ACTION ID	
---------------	--	----------------------------	----------------------

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0073 | 12.2

Source p. 11

V2X interoperability

Compatibility shall be demonstrated at message, application and outcome levels. Successful radio reception or decoding alone shall not demonstrate that another vehicle or infrastructure service interprets the information correctly.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0074 | 12.3

Source p. 11

V2X interoperability

Testing shall include at least two independent counterpart implementations for each claimed interface profile, with independence documented. Where this is not achievable, the result shall be described as single counterpart integration testing and shall not support an unrestricted interoperability claim.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0075 | 12.4

Source p. 11

V2X interoperability

The test matrix shall cover supported version combinations, direct and network mediated paths as claimed, gateway translation, dense traffic, handover, interference, loss bursts, congestion and recovery. Unsupported bearer combinations shall be explicitly excluded.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0076 | 12.5

Source p. 11

V2X interoperability

Receivers shall handle duplicates, reordering, expiry, contradictory information and missing mandatory data without unsafe action. Unrecognized information shall not be silently converted to an apparently valid default.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0077 | 12.6

Source p. 11

V2X interoperability

Time, position, direction and lane association errors shall be injected at the interface. Tests shall demonstrate correct handling of opposite road directions, stacked roads, tunnels, adjacent intersections and transitions between coordinate or map versions.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0078 | 12.7

Source p. 11

V2X interoperability

Authentication of a sender shall not be treated as proof that its observation is correct. Plausibility, relevance, freshness and confidence shall be checked according to the intended use. A compromised but credentialed source shall be included in testing.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0079 | 12.8

Source p. 11

V2X interoperability

Identity changes intended to reduce tracking shall not break essential safety behaviour. Long term identity correlation shall be minimized, and duplicate object handling shall not create phantom road users during a permitted identity transition.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0080 | 12.9

Source p. 11

V2X interoperability

Congestion management shall preserve the highest priority service according to its validated operating contract. The organization shall measure the effect of traffic load on complete application outcomes rather than on packet delivery alone.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

13 | Cooperative functions and trustworthy information

CHECK 0081 | 13.1

Source p. 12

Cooperative functions and trustworthy information

Cooperative information shall be assigned a permitted role: advisory information, warning support or motion influence. Promotion from one role to another shall require additional safety and integration evidence, not simply a configuration change.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0082 | 13.2

Source p. 12

Cooperative functions and trustworthy information

Cooperative perception shall preserve object provenance, observation time, uncertainty and relevant dependencies between reports. Multiple reports derived from the same original observation shall not be treated as independent confirmation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0083 | 13.3

Source p. 12

Cooperative functions and trustworthy information

Object fusion shall address disagreement, false objects, missed objects, occlusion and uncertainty growth. Lack of external observations shall not justify reducing baseline protection for unconnected road users.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0084 | 13.4

Source p. 12

Cooperative functions and trustworthy information

Cooperative manoeuvre proposals shall have explicit participants, states, validity times, acceptance conditions and an abort rule. Silence shall not count as consent. A communication acknowledgement shall not establish that another vehicle has executed the manoeuvre.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0085 | 13.5

Source p. 12

Cooperative functions and trustworthy information

A participant shall remain within its validated motion authority. An external message shall not directly command steering, braking or acceleration without the checks and constraints defined in the safety architecture.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0086 | 13.6

Source p. 12

Cooperative functions and trustworthy information

Traffic signal information shall be associated with the correct approach, lane and movement. Conflicting, expired or implausible signal data shall trigger the defined restriction. Signal timing advice shall not encourage acceleration that defeats a safe stopping opportunity.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0087 | 13.7

Source p. 12

Cooperative functions and trustworthy information

Emergency vehicle priority, roadwork warnings and access permissions shall use appropriately authorized sources. A priority request shall not be presented as proof that the road is clear or that other users have yielded.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0088 | 13.8

Source p. 12

Cooperative functions and trustworthy information

External vehicle displays intended for pedestrians shall avoid ambiguous promises of safety. Comprehension shall be tested with people outside the vehicle, including unconnected users and those unfamiliar with the display.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

14 | City and infrastructure compatibility

CHECK 0089 | 14.1

Source p. 12

City and infrastructure compatibility

A city integration claim shall identify the actual deployment area, road classes, supported services, responsible infrastructure parties and configuration dates. A capability demonstrated at one junction shall not establish readiness for an entire city.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0090 | 14.2

Source p. 12

City and infrastructure compatibility

The city profile shall address traffic signals, variable restrictions, roadworks, tunnels, bridges, parking, loading areas, emergency routes, pedestrian areas and relevant public transport interactions. Rural and mixed traffic transitions shall be included where journeys cross the city boundary.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0091 | 14.3

Source p. 12

City and infrastructure compatibility

Digital road rules, map information and physical conditions shall be reconciled through a documented conflict strategy. The system shall not blindly follow a map instruction when current signs, a physical obstruction or another reliable observation make that instruction unsafe or invalid.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0092 | 14.4

Source p. 13

City and infrastructure compatibility

Geofences shall have source authority, version, location uncertainty, validity and boundary behaviour. Entering or leaving a geofence shall not cause an abrupt unsafe vehicle action. Uncertain boundary position shall invoke the documented conservative behaviour.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0093 | 14.5

Source p. 13

City and infrastructure compatibility

Infrastructure condition shall be represented as verified available, degraded, unavailable or unknown. A missing update shall not preserve an old available state indefinitely. Restoration shall include verification of both communication and service meaning.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0094 | 14.6

Source p. 13

City and infrastructure compatibility

Curb and parking functions shall account for legal access, vehicle size, door opening, passenger transfer, assistive devices, cyclists and emergency access. A technically reachable stopping point shall not automatically qualify as a safe or accessible pickup point.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0095 | 14.7

Source p. 13

City and infrastructure compatibility

Shared city interfaces shall specify authorization, update responsibilities, auditability and dispute handling. The deployment shall prevent a single data source or operator failure from silently corrupting all dependent mobility services.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0096 | 14.8

Source p. 13

City and infrastructure compatibility

The organization shall perform a controlled or observational deployment validation in each materially distinct city profile claimed. Evidence shall include infrastructure outages and transitions between providers. Deliberate hazardous faults shall not be injected into uncontrolled public traffic.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

15 | Connected journeys and shared mobility

CHECK 0097 | 15.1

Source p. 13

Connected journeys and shared mobility

A journey service shall define its assessment boundary from the first supported planning or booking step to the last supported arrival or handover step. Interfaces outside the operator's control shall be identified with their failure and recovery arrangements.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0098 | 15.2

Source p. 13

Connected journeys and shared mobility

Itineraries shall distinguish estimated, booked, confirmed and completed stages. Predictions shall include material uncertainty, and changes shall be communicated before the user loses a practical opportunity to choose an alternative where feasible.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0099 | 15.3

Source p. 13

Connected journeys and shared mobility

Total disclosed price, material restrictions, cancellation conditions and accessibility limitations shall be available before commitment. A missed connection or charging failure shall not create an undisclosed automatic purchase.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0100 | 15.4

Source p. 13

Connected journeys and shared mobility

Authentication, digital keys and boarding checks shall prevent access by an unauthorized person while providing a documented recovery path for a legitimate user with a dead battery, lost connection or failed recognition. The recovery path shall not rely on disclosing another user's personal data.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0101 | 15.5

Source p. 13

Connected journeys and shared mobility

Shared vehicles shall reset personal information and unsafe inherited settings between users. Stored home locations, communications, payment credentials and accessibility preferences shall not be exposed to the next user.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0102 | 15.6

Source p. 13

Connected journeys and shared mobility

Multimodal handovers shall consider walking distance, transfer time, language, baggage, assistive devices and physical accessibility. A nominal connection shall not be described as accessible where a required lift, crossing or boarding facility is unavailable or unverified.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0103 | 15.7

Source p. 13

Connected journeys and shared mobility

Where the service carries passengers, a missed pickup, stranded user or failed journey shall trigger a defined assistance process. The organization shall identify who owns the issue across provider boundaries and shall measure time to acknowledgement and resolution.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

16 | Charging and energy service experience

CHECK 0104 | 16.1

Source p. 14

Charging and energy service experience

Charging discovery shall identify connector compatibility, power assumptions, access restrictions, opening hours, price basis, accessibility information and the age of availability data. An estimated free connector shall not be displayed as a guaranteed reservation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0105 | 16.2

Source p. 14

Charging and energy service experience

Route and range guidance shall account for relevant uncertainty in weather, elevation, load, consumption, battery condition and charger availability. Reserve assumptions shall be disclosed. A route shall not be presented as assured when completion depends on an unverified energy service.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0106 | 16.3

Source p. 14

Charging and energy service experience

Physical interaction shall be assessed for cable handling, reach, screen use, payment and unobstructed access by the claimed user population. A software accessibility claim shall not imply that the charging bay and route to the charger are physically accessible.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0107 | 16.4

Source p. 14

Charging and energy service experience

A session shall provide clear states for connected, authorized, charging, restricted, stopped and failed. The user shall be told whether energy transfer has actually started; a payment acknowledgement alone is insufficient.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0108 | 16.5

Source p. 14

Charging and energy service experience

Session initiation, recovery after interruption, duplicate requests, payment failure and receipt delivery shall be tested across the claimed vehicle, charger and service combinations. Repeated network requests shall not produce duplicate charges or contradictory session states.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0109 | 16.6

Source p. 14

Charging and energy service experience

Publicly offered energy services within scope shall disclose account requirements and provide an accessible assistance or alternative access path when the primary digital flow fails. The standard does not authorize bypassing payment or electrical protection.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0110 | 16.7

Source p. 14

Charging and energy service experience

Where bidirectional energy transfer is offered, the interface shall disclose direction, energy reserve, departure constraint, financial basis and stop conditions. A user's mobility reserve shall not be overridden by a service optimization request without valid authorization and clear feedback.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

17 | Artificial intelligence and adaptive interfaces

CHECK 0111 | 17.1

Source p. 14

Artificial intelligence and adaptive interfaces

Each artificial intelligence function shall have a documented purpose, input sources, permitted outputs, authority limits, failure behaviour and validation scope. A model's fluent response shall not be treated as evidence of correct state estimation or authorized action.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0112 | 17.2

Source p. 14

Artificial intelligence and adaptive interfaces

A conversational assistant shall distinguish information, recommendation, requested action and completed action. It shall not state that a route is safe, a vehicle function is active, a payment is complete or assistance is dispatched without confirmation from the authoritative system.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0113 | 17.3

Source p. 14

Artificial intelligence and adaptive interfaces

Open ended generated output shall not directly control a safety critical actuator. Any permitted action request shall pass through a constrained, authenticated and independently validated control interface with explicit bounds and a safe rejection path.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0114 | 17.4

Source p. 14

Artificial intelligence and adaptive interfaces

Untrusted content in messages, maps, service descriptions, audio or other inputs shall not expand the assistant's authority or bypass user permissions. Testing shall include misleading instructions embedded in content, ambiguous speech, invented service information and conflicting requests.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0115 | 17.5

Source p. 15

Artificial intelligence and adaptive interfaces

Confidence handling shall be based on measured behaviour and use case risk. A low confidence or unsupported request shall produce a bounded response, a request for clarification when safe, or an appropriate refusal. Guessing shall not be used for a critical command.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0116 | 17.6

Source p. 15

Artificial intelligence and adaptive interfaces

Adaptive interfaces shall preserve the identity and location of essential controls. Personalization shall not silently change warning meaning, driving responsibility, privacy permissions or payment authority. Changes affecting these elements shall be separately validated and clearly communicated.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0117 | 17.7

Source p. 15

Artificial intelligence and adaptive interfaces

Continuous learning affecting an assessed function shall have a controlled release boundary. Unreviewed field learning shall not alter safety relevant behaviour. Data drift, population gaps, model replacement and rollback behaviour shall be monitored.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0118 | 17.8

Source p. 15

Artificial intelligence and adaptive interfaces

Emotion or wellness inference shall not be presented as a medical diagnosis. Users shall receive an accurate explanation of material sensing and inference, and optional personalization shall be separable from essential safety operation.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

18 | Service resilience and degraded operation

CHECK 0119 | 18.1

Source p. 15

Service resilience and degraded operation

The organization shall define degraded states for loss of cloud service, communication, positioning, time synchronization, roadside support, identity services, primary display and relevant sensors. Each state shall specify remaining capability, user information and recovery conditions.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0120 | 18.2

Source p. 15

Service resilience and degraded operation

An essential local function shall not cease merely because an entertainment account, advertising service, optional analytics service or convenience subscription is unavailable. Dependencies needed for a particular automated or connected function shall be explicitly declared and safely managed.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0121 | 18.3

Source p. 15

Service resilience and degraded operation

A degraded state shall not be described as fully operational. The interface shall communicate the restriction at the time it matters, without an overwhelming sequence of repetitive alerts that obscures the action needed.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0122 | 18.4

Source p. 15

Service resilience and degraded operation

Recovery shall prevent oscillation between active and failed states. Hysteresis, confirmation intervals or another justified stability control shall be used where intermittent conditions could cause confusing or unsafe transitions.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0123 | 18.5

Source p. 15

Service resilience and degraded operation

Loss of connectivity during a time critical cooperative function shall invoke the validated fallback within its timing budget. Deferred remote processing shall not be treated as an acceptable substitute for a function that requires immediate local action.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0124 | 18.6

Source p. 15

Service resilience and degraded operation

Emergency assistance shall identify the available communication paths and their limitations. If remote assistance cannot be reached, the interface shall not display a false dispatch confirmation and shall provide the validated local guidance available for that configuration.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0125 | 18.7

Source p. 15

Service resilience and degraded operation

Stress testing shall cover peak processing load, resource exhaustion, power transitions, thermal constraints and simultaneous failures with a credible common cause. A fast response under an unloaded demonstration condition shall not establish service resilience.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

19 | Data use and personal control

CHECK 0126 | 19.1

Source p. 16

Data use and personal control

A data inventory shall identify purpose, source, access, recipients, retention and deletion for location, vehicle state, cabin sensing, voice, biometric and journey data. Collection shall be limited to the declared purpose and necessary operational evidence.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0127 | 19.2

Source p. 16

Data use and personal control

Personal control shall be usable while stationary and shall separate essential operation from optional analytics, personalization and commercial sharing. Refusing optional processing shall not silently disable an unrelated essential function.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0128 | 19.3

Source p. 16

Data use and personal control

A user shall be able to understand whether processing is local or remote and which consequences follow from disabling an optional feature. The interface shall not use misleading defaults, repeated obstruction or unequal emphasis to frustrate an informed choice.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0129 | 19.4

Source p. 16

Data use and personal control

Cabin monitoring and identity functions shall minimize raw recording and unnecessary transfer. Where a derived event is sufficient, retention of continuous identifiable recording shall require a specific documented justification.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0130 | 19.5

Source p. 16

Data use and personal control

Transfer of ownership, vehicle rental return, account closure and service withdrawal shall include tested deletion or segregation of personal data and revocation of relevant access credentials. Deleting a visible profile name alone shall not count as removal of access.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0131 | 19.6

Source p. 16

Data use and personal control

Necessary safety or dispute records shall have a defined lawful retention basis, limited access and integrity controls. The organization shall avoid collecting identifiable bystander information when nonidentifying evidence can meet the verification objective.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0132 | 19.7

Source p. 16

Data use and personal control

Data portability, where supplied, shall preserve meaning and units and shall not export secrets or another person's information. Compatibility of transferred settings shall be checked before they affect the receiving vehicle.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

20 | Integration and software change

CHECK 0133 | 20.1

Source p. 16

Integration and software change

The integration baseline shall identify hardware, software, models, calibration, maps, service endpoints, interface profiles, languages and enabled features. Evidence from another configuration shall have a documented equivalence analysis.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0134 | 20.2

Source p. 16

Integration and software change

Change impact analysis shall consider both technical compatibility and user behaviour. Relocating a control, changing a symbol, modifying a warning, replacing a model or changing a service provider can require reassessment even when the functional feature name is unchanged.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0135 | 20.3

Source p. 16

Integration and software change

Updates affecting assessed outcomes shall repeat the impacted requirements, critical scenarios and regression measures. A larger number of convenience features shall not compensate for worse essential control access or loss of a supported accessibility path.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0136 | 20.4

Source p. 16

Integration and software change

Installation shall be prohibited in an operating state where interruption could compromise control or essential access. Prerequisites, power availability, restoration, rollback or another safe recovery mechanism shall be verified before deployment.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0137 | 20.5

Source p. 17

Integration and software change

A rollback shall not restore an unacceptable known vulnerability or create an unsupported data format without a compensating safe plan. The organization shall define how a failed update is handled when rollback itself is unsafe.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0138 | 20.6

Source p. 17

Integration and software change

Users shall receive concise information on changes that affect driving responsibility, important controls, supported conditions, personal data or payment behaviour. Learning an unexpected new control sequence while driving shall not be the update strategy.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0139 | 20.7

Source p. 17

Integration and software change

A material change shall trigger a conformity review before the existing statement is applied to the changed configuration. Claims shall identify the current assessed version and any configuration restrictions.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

21 | Validation and evidence quality

CHECK 0140 | 21.1

Source p. 17

Validation and evidence quality

The validation plan shall link every applicable requirement to a method, test condition, acceptance rule and evidence record. It shall combine document review, interface tests, simulation, controlled vehicle tests, human studies and field evidence in proportion to the claim.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0141 | 21.2

Source p. 17

Validation and evidence quality

Simulation shall have a documented intended use, calibration basis, validation range and uncertainty. A scenario outside the validated model range shall not support a pass decision without additional evidence. Simulated human behaviour shall not replace all user testing for human experience claims.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0142 | 21.3

Source p. 17

Validation and evidence quality

The plan shall define the task unit, denominator, observation period, failure definition, independent experimental unit, sample size and confidence method before tests begin. Failed attempts, retries, unavailable service periods and aborted tasks shall be recorded rather than selectively removed.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0143 | 21.4

Source p. 17

Validation and evidence quality

Human studies shall use the participant and task provisions in Annex B. Aggregate and relevant subgroup results shall be reported. The assessor shall examine whether an average masks systematic exclusion or a hazardous misunderstanding.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0144 | 21.5

Source p. 17

Validation and evidence quality

Measuring equipment shall have traceable calibration and uncertainty suitable for the decision. Systems measuring latency or data age shall document synchronization accuracy. Eye tracking quality, manual coding rules and missing data handling shall be recorded.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0145 | 21.6

Source p. 17

Validation and evidence quality

The scenario catalogue in Annex A is a minimum set. The organization shall add scenarios identified by the operating domain, hazard analysis, complaints and field evidence. Passing the catalogue shall not be represented as exhaustive proof of safety.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0146 | 21.7

Source p. 17

Validation and evidence quality

The tested sample shall represent production hardware, enabled software and realistic load. Prototype evidence shall be labelled and reconciled with the production configuration before a production claim is made.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0147 | 21.8

Source p. 17

Validation and evidence quality

Reproducible evidence shall include setup, configuration, stimulus, logs, measurements, expected and observed results, limitations and reviewer approval. Necessary proprietary material may remain controlled, but its existence and review status shall be recorded.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

22 | Field monitoring and incident response

CHECK 0148 | 22.1

Source p. 17

Field monitoring and incident response

Field monitoring shall track critical interaction errors, unexplained mode changes, failed journeys, connectivity degradation, misleading information, accessibility failures and update regressions. The organization shall define exposure denominators appropriate to each measure.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0149 | 22.2

Source p. 18

Field monitoring and incident response

A critical incident shall be triaged as soon as detected. Protective action shall be based on the potential harm and exposure, and may precede completion of the root cause investigation. A fixed administrative reporting period shall not justify continued unsafe operation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0150 | 22.3

Source p. 18

Field monitoring and incident response

Incident response shall assign ownership across vehicle, infrastructure and service providers. The user shall have an identifiable assistance route even when responsibility is still being investigated.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0151 | 22.4

Source p. 18

Field monitoring and incident response

The organization shall define thresholds for investigation, restriction, rollback, feature withdrawal and reassessment. Recurrent nuisance warnings that induce users to disable protection shall be treated as a potentially safety relevant trend.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0152 | 22.5

Source p. 18

Field monitoring and incident response

Field comparisons shall account for changes in software, user population, geography, season and service exposure. A fall in reported incidents caused by reduced usage or a broken reporting channel shall not be claimed as improved performance.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0153 | 22.6

Source p. 18

Field monitoring and incident response

Lessons from incidents shall update risk controls, user information, training, test scenarios and supplier obligations as applicable. Closure shall include evidence that the corrective action works and has not created an unacceptable new failure.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

23 | Assessment and conformity decisions

CHECK 0154 | 23.1

Source p. 18

Assessment and conformity decisions

Assessment shall proceed through scope acceptance, evidence review, risk based testing, finding resolution, independent decision and issue of a scoped statement. The assessor shall retain the rationale for sample selection and any evidence accepted from previous testing.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0155 | 23.2

Source p. 18

Assessment and conformity decisions

All applicable "shall" requirements shall pass before conformity is stated. Not demonstrated is not a pass. A high score on optional features, comfort or service convenience shall not compensate for a failed requirement.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0156 | 23.3

Source p. 18

Assessment and conformity decisions

A critical finding is a demonstrated or credibly exposed failure that can cause serious harm, defeat essential control or exit, misrepresent driving responsibility, or allow an unauthorized critical action. The affected conformity claim shall be withheld or suspended until correction and verification are complete.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0157 | 23.4

Source p. 18

Assessment and conformity decisions

A major finding is a systemic or material failure of an applicable requirement, including missing essential evidence or an unsupported interoperability claim. Other isolated requirement failures are minor findings. Major and minor findings shall also be closed before a pass decision; classification changes urgency, not the obligation to comply.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0158 | 23.5

Source p. 18

Assessment and conformity decisions

Each assessed module shall have a separate outcome. Partial module results may be reported as test results with precise scope, but shall not be described as conformity of the whole vehicle, journey or deployment.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0159 | 23.6

Source p. 18

Assessment and conformity decisions

This edition does not define a composite score, star rating or performance grade. Measures shall be reported individually with conditions and uncertainty. Any future graded scheme shall require separate published rules and validation before use.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0160 | 23.7

Source p. 18

Assessment and conformity decisions

An appeal shall be reviewed by competent persons who did not make the original decision. Commercial relationships or membership shall not change acceptance criteria or the treatment of findings.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

24 | Public claims and assessment records

CHECK 0161 | 24.1

Source p. 19

Public claims and assessment records

An assessment statement shall identify the assessment object, responsible organization, document edition, modules, tested configuration, operating scope, methods, decision date, assessment body and restrictions. Annex D defines the minimum structure.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0162 | 24.2

Source p. 19

Public claims and assessment records

The public statement shall distinguish independently assessed conformity, supplier declaration, laboratory results, pilot results and planned capabilities. The use of a mark or endorsement shall require actual authorization under the applicable IAF scheme.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0163 | 24.3

Source p. 19

Public claims and assessment records

The mobility capability record shall disclose external dependencies, tested counterpart coverage, geographical scope, known limitations, support arrangements and the event or configuration change that would require reassessment.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0164 | 24.4

Source p. 19

Public claims and assessment records

There is no automatic fixed validity period established by this standard. The assessment remains tied to the evaluated configuration and conditions, subject to the assessment scheme's monitoring and change rules. A new material risk or change shall trigger review without waiting for a calendar expiry.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0165 | 24.5

Source p. 19

Public claims and assessment records

Claims such as "works in every city", "fully interoperable", "distraction free", "zero risk" or "guaranteed accessible" shall not be used without evidence matching their entire meaning. A limited test set shall not support an unlimited claim.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0166 | 24.6

Source p. 19

Public claims and assessment records

Public summaries shall be understandable without disclosing security secrets, personal data or confidential engineering detail. Sufficient scope and limitation information shall remain visible for a purchaser or user to judge relevance.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

25 | Improvement and end of support

CHECK 0167 | 25.1

Source p. 19

Improvement and end of support

The organization shall periodically review experience, accessibility, interoperability and field reliability against the accepted baseline. Review frequency shall reflect risk, deployment change and observed failures and shall be defined in the operational plan.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0168 | 25.2

Source p. 19

Improvement and end of support

Support arrangements shall identify who maintains the product, interface compatibility, service dependencies and user assistance. A minimum support duration is not specified here; the declared duration and foreseeable end of support consequences shall be addressed before supply.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0169 | 25.3

Source p. 19

Improvement and end of support

Withdrawal of a service shall have a transition plan covering user notice, remaining capability, stranded users, data removal and safe deactivation. Essential local access or control shall not be unexpectedly removed because a remote commercial service ends.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0170 | 25.4

Source p. 19

Improvement and end of support

Replacement of infrastructure, communication technologies or trust services shall trigger compatibility assessment. Migration shall include mixed version operation, loss of older support and clear communication of affected features.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0171 | 25.5

Source p. 19

Improvement and end of support

Efficiency claims shall report system boundaries and measured outcomes such as energy use per completed journey, occupancy or avoidable travel. Efficiency optimization shall not reduce safety, accessibility or essential user control.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0172 | 25.6

Source p. 20

Improvement and end of support

The organization should provide a structured route for suppliers, cities, users and assessors to propose new scenarios and requirement improvements. Accepted changes shall preserve traceability to their evidence and decision rationale.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

26 | Adoption and maintenance of the standard

CHECK 0173 | 26.1

Source p. 20

Adoption and maintenance of the standard

Before adoption of the First Edition, IAF shall complete the pilot validation programme in Annex E, resolve material ambiguities and approve the normative thresholds. An unresolved threshold shall not be presented as validated merely because it appears in this proposal.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0174 | 26.2

Source p. 20

Adoption and maintenance of the standard

The publication process shall include technical review across vehicle engineering, human factors, accessibility, infrastructure, services and conformity assessment. Conflicts of interest and substantive comments shall be recorded with their resolution.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0175 | 26.3

Source p. 20

Adoption and maintenance of the standard

Changes to normative requirements, assessment thresholds and module definitions shall be version controlled. Transition provisions shall state which configurations and assessment statements are affected.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0176 | 26.4

Source p. 20

Adoption and maintenance of the standard

New technology annexes shall define scope, hazards, measurable requirements and test methods before they become a basis for conformity. Informative predictions shall not create an implied claim of technical readiness.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex A | Required test scenarios

CHECK 0177 | Annex A

Source p. 21

Required test scenarios

This annex is normative. All applicable scenarios below shall be included in the validation plan. For each scenario, the plan shall specify initial state, input sequence, parameter ranges, fault duration, expected result, timing limits, measurements and acceptance rule. Tests shall use the criticality and sampling provisions of Annex B.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0178 | A01

Source p. 21

First use and language mismatch

An unfamiliar user shall locate the required controls and interpret critical states using only the information supplied with the product. Test the primary languages, fallback language and at least one realistic mismatch. Record unaided success, misunderstanding and recovery.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0179 | A02

Source p. 21

Driving task interruption

Interrupt each permitted secondary task during a representative driving demand. The task shall yield immediately to driving and resume without a false completion state or unnecessary repetition. Apply B02 and B03.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0180 | A03

Source p. 21

Primary display failure

Freeze, blank and restart the main display during use. Essential controls and the declared fallback shall remain available under the fault scope, with no misleading display state. Distinguish display failure from common power failure.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0181 | A04

Source p. 21

Simultaneous warnings

Present a critical warning together with navigation, incoming communication and service notifications. The critical meaning and action shall remain understandable. Record masking, delay and inappropriate dismissal.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0182 | A05

Source p. 21

Human variation and access needs

Test the declared range of reach, vision, hearing, dexterity, language and relevant cognitive needs. Include cold or wet hands, gloves and vibration when credible. Validate alternatives with actual users of those alternatives.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0183 | A06

Source p. 21

Driver monitoring obstruction

Challenge illumination, eyewear, head pose and sensor obstruction. Confirm that unavailable monitoring is not classified as attentive behaviour. Measure missed and false detections separately under B08.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0184 | A07

Source p. 21

Responsibility transition and nonresponse

Exercise intended mode changes, unanticipated system restriction and failure to respond. Verify comprehension, response time and system fallback against the scenario-specific safety budget. Use protected simulation or closed facilities.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0185 | A08

Source p. 21

Passenger only automated service

Test unexpected stop, route change, communication failure, assistance request and evacuation information without a driver available to intervene. Confirm that passengers are not given an untrained driving obligation.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0186 | A09

Source p. 21

V2X independent counterparts

Exchange every mandatory message and claimed optional feature with the independently implemented counterparts. Verify semantics, timing, state transitions and outcomes, including supported version combinations.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0187 | A10

Source p. 21

Invalid and contradictory messages

Inject malformed, duplicated, replayed, expired, out-of-order and mutually inconsistent data. Invalid information shall not be promoted to trusted current information. Verify the declared handling and fallback.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0188 | A11

Source p. 21

Plausible but false trusted source

Supply incorrect yet syntactically valid and authenticated information. Include a phantom object and a wrongly located signal. Check that trust credentials alone do not authorize unsafe interpretation or motion.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0189 | A12

Source p. 21

Network congestion and bursts

Apply declared maximum load, load beyond the domain, interference, handover and correlated loss bursts. Measure the complete service chain and tail latency. Verify controlled restriction when the service contract is exceeded.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0190 | A13

Source p. 22

Time and position failure

Inject clock offset, drift, loss of synchronization, positioning outage and wrong lane association. Include opposite directions and stacked roads. Check validity decisions with measurement uncertainty included.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0191 | A14

Source p. 22

Unconnected vulnerable road users

Include pedestrians, cyclists and small vehicles with no transmitter, no phone or a failed transmitter. The assessed function shall not interpret missing connectivity as an empty or safe path.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0192 | A15

Source p. 22

Cooperative perception disagreement

Introduce correlated reports, double counted objects, stale observations and conflicting confidence. Verify provenance handling, uncertainty growth and the prevention of unjustified confidence inflation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0193 | A16

Source p. 22

Cooperative manoeuvre interruption

Lose or delay messages at proposal, acceptance, execution and cancellation stages. A participant shall not infer consent from silence or execution from acknowledgement. Check the abort path and local authority limits.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0194 | A17

Source p. 22

City data conflict

Create disagreement between map data, a geofence, roadside information and a current physical condition. Test ambiguous boundaries and roadwork changes. Verify the documented conflict and uncertainty strategy.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0195 | A18

Source p. 22

Infrastructure outage and restoration

Remove a signal feed, parking service, curb service or roadside unit. Confirm the transition to degraded, unavailable or unknown status and the evidence required to restore a verified state.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0196 | A19

Source p. 22

Accessible pickup and transfer

Assess a pickup with a blocked curb, unavailable lift or inaccessible route. Confirm that the service does not label the handover accessible and offers its declared recovery process.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0197 | A20

Source p. 22

Journey failure and shared access

Test a missed connection, failed booking, dead phone, revoked digital key and account outage. Prevent unauthorized access while executing the documented legitimate-user recovery and assistance process.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0198 | A21

Source p. 22

Charging journey disruption

Test stale charger availability, incompatible equipment, authorization failure, duplicate requests, interrupted energy transfer and payment reconciliation. Verify actual charging state, price disclosure and route recovery.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0199 | A22

Source p. 22

Artificial intelligence error and authority

Use ambiguous commands, invented destinations, malicious instructions embedded in service content and false claims of completed actions. The assistant shall stay within its permitted authority and use confirmed system state.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0200 | A23

Source p. 22

Update and experience regression

Apply a representative interface, model or connectivity update, including an interrupted installation. Repeat impacted critical tasks and compatibility tests. Verify recovery and the absence of unacceptable regression.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0201 | A24

Source p. 22

Privacy and ownership transfer

Change the driver or vehicle owner, revoke permissions, close an account and reset the product. Verify that personal information and access rights do not remain available to an unauthorized next user.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0202 | A25

Source p. 22

End of service and compound failure

Withdraw a remote service while introducing a credible local fault or degraded network. Confirm retained essential access, accurate user information and the validated safe continuation or termination plan.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex B | Measures and proposed acceptance criteria

CHECK 0203 | Annex B

Source p. 23

Measures and proposed acceptance criteria

This annex is normative within the proposal. Its numerical values are proposed IAF criteria subject to Annex E before adoption. They are assessment rules for a defined scope, not universal proof of safety. A risk-derived requirement shall be tighter whenever the default is insufficient.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0204 | B01

Source p. 23

Test design and participants

A quantitative human experience assessment shall include at least 40 independent participants representative of the claimed users. At least 10 participants shall represent each declared access-needs subgroup materially affected by the assessed interface; groups may overlap. These are minimum recruitment floors, not proof of statistical adequacy. The organization shall additionally justify sample size against the endpoint, expected variability, margin and confidence objective. Critical accessibility paths shall be tested with users of those paths. Small subgroup findings shall be reported with uncertainty and shall not establish population equivalence.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0205 | B02

Source p. 23

Essential task success

For each critical task, every evaluable participant shall complete the required safe action without a hazardous error or prohibited assistance. Failure, abandonment or exceeding the scenario's safety time limit is a failure. The study shall test at least 40 independent participant-level outcomes per task unless the assessor accepts a larger risk-based design; fewer outcomes cannot support a pass under this criterion. Report success count, denominator and an exact one-sided 95% lower confidence bound. The all-success study rule is a screening gate and does not establish a zero population failure rate.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0206 | B03

Source p. 23

Permitted secondary tasks while driving

Every permitted visual-manual secondary task shall be evaluated in a representative simulator or protected driving environment. For each participant and task, measure all glances away from the forward roadway toward task-relevant regions and the total duration of those glances from task start to completion or abandonment, including retries. Report eye-tracking definitions and exclude ordinary driving mirror checks from task glances only under a prespecified coding rule. For a participant-task record to pass the proposed gate, no individual task glance shall exceed 2.0 seconds and total task-glance time shall not exceed 10.0 seconds. At least 90% of participants shall pass both conditions for each task. Report each participant-task record and the exact one-sided 95% lower confidence bound on the participant pass rate; that bound shall be at least 80%. Do not hide poor users through pooling. An abandoned task fails. Passing this gate does not establish absence of cognitive distraction; B04 also applies.

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

CHECK 0207 | B04

Source p. 23

Driving performance during interaction

Compare interaction and baseline driving using a randomized or counterbalanced within-participant design. Prespecify scenario-specific limits for lane control, hazard response and missed events from the safety analysis. Every relevant endpoint shall meet its limit and a justified noninferiority margin. Report confidence intervals and effect sizes. A statistically nonsignificant difference alone shall not establish equivalence. Any task-associated hazardous event in the evaluated scenarios blocks acceptance pending investigation and corrective verification.

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

CHECK 0208 | B05

Source p. 23

Comprehension and ordinary usability

For every critical state or warning, all evaluated users shall identify the required action and responsibility correctly without a hazardous interpretation; use at least 40 independent participant outcomes per item. For each noncritical task, unaided completion shall be at least 90%, with the exact one-sided 95% lower confidence bound at least 80%. Success requires completion within the prespecified task limit and without prohibited assistance. Report first use and trained use separately. Critical rules shall not be relaxed to the noncritical threshold.

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

Requirements & evidence

CHECK 0209 | B06

Source p. 24

Interface feedback

For a local noncritical input, visible, audible or haptic acknowledgement shall have a measured 95th percentile no greater than 250 milliseconds under the declared maximum operating load, with at least 100 valid operations per interface state. An action taking more than 1 second shall provide an accurate pending state and an available cancellation path where cancellation is safe. Feedback is not proof that the underlying action completed. Critical inputs shall satisfy their independently allocated safety budget even when it is shorter than these values.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0210 | B07

Source p. 24

Accessible alternatives

Each claimed alternative interaction path shall complete the same essential outcome without an additional hazardous step, undisclosed dependence on another person or loss of necessary information. Apply B02 for critical tasks using a statistically justified population design; the subgroup minimum in B01 alone does not reduce B02's task sample requirement. For other tasks apply B05 and report outcomes per declared access group. Where a task has fewer required users available for study, evidence may be reported as exploratory but shall not satisfy the full criterion.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0211 | B08

Source p. 24

Monitoring and transition performance

For driver state, occupancy and transition functions, report missed events, false events, detection delay and response delay by scenario and relevant subgroup. Acceptance limits shall come from the documented risk analysis and shall be fixed before testing. Normal and obstructed sensor conditions shall be separate strata. No aggregate accuracy percentage shall substitute for the required false-negative, false-positive and timing limits.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0212 | B09

Source p. 24

Communication and freshness

Each use case shall state maximum acceptable data age, application latency, loss-burst duration, positioning error and time uncertainty, together with required service reliability and operating conditions. Test at least 1,000 application transactions per critical load condition as an initial characterization floor, expanding the sample to support the claimed reliability and tail quantile. Use application generation-to-use boundaries, not radio delay alone. A transaction missing its deadline is a failure even if it arrives later. Every use of information exceeding a hard safety validity limit shall be rejected or restricted as specified; a favourable average cannot override this gate.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0213 | B10

Source p. 24

Interoperability and negative tests

Every mandatory test in the declared profile and every claimed optional feature shall pass with each required independent counterpart. Repeat each applicable critical negative scenario at least 30 times across the prespecified parameter variations as an initial coverage floor. There shall be no observed prohibited unsafe acceptance or critical action. These repetitions establish scenario coverage, not a rare-event rate claim. A justified reliability study is required if a numerical failure probability is claimed.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0214 | B11

Source p. 24

Service and journey success

Define a service attempt from a user's request or scheduled start to confirmed completion, abandonment or timeout. Retries shall remain part of the original attempt. For each declared journey or energy workflow, test at least 100 attempts across claimed providers and conditions, with at least 20 per materially distinct combination. Observed successful completion shall be at least 95%, and the exact one-sided 95% lower confidence bound shall be at least 90%. Failure of a critical access or safety condition fails independently of the aggregate rate. This is a controlled-test gate; field availability claims need representative exposure data and separate uncertainty.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0215 | B12

Source p. 24-25

Comfort

Measure relevant motion, noise, thermal and ergonomic variables using a declared exposure method and representative routes. Record participant discomfort before and after exposure, motion sickness, early termination and seat position. Every safety relevant exposure limit shall be justified and met. A claim of improved comfort shall demonstrate a prespecified meaningful improvement or noninferiority objective, with uncertainty, against the declared baseline. This edition sets no universal comfort score or acceleration limit for all vehicle types.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0216 | B13

Source p. 25

Resilience and recovery

In each applicable loss scenario, all essential functions within the declared fault tolerance scope shall remain available or reach their validated fallback within the allocated time. Restoration shall meet the prespecified stability condition. Repeat each critical recovery scenario at least 30 times across realistic load and fault timing. No false full-service state or prohibited unsafe action is permitted. Broader reliability claims require additional exposure evidence.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0217 | B14

Source p. 25

Experience preservation after changes

Critical task, responsibility comprehension, accessibility and fallback gates shall pass again after an affected change. For continuous and noncritical measures, the release plan shall prespecify acceptable regression margins and confidence methods. The post-change result shall meet the absolute criterion and the justified comparison margin. An unproven regression shall not be dismissed merely because average satisfaction improved.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0218 | B15

Source p. 25

Statistical treatment

Use the independent participant, session, vehicle or deployment block as appropriate; repeated observations from one source shall not be assumed independent. Define percentile estimates before testing. For the default nearest-rank estimate, sort n observations and select rank ceiling(p multiplied by n); report n , the estimated percentile and a justified confidence interval. When a percentile confidence bound overlaps the acceptance limit, record not demonstrated unless a more conservative decision rule was agreed before testing.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0219 | B16

Source p. 25

Measurement and missing data

Instrument uncertainty shall be included in decisions against a hard limit. For an upper limit, the measured value plus the applicable expanded uncertainty shall remain within the limit under the agreed rule. Instrument loss shall be distinguished from product failure. Exclusion is permitted only for a documented test-system cause under the prespecified plan, with replacement testing and sensitivity analysis. Product-caused missing observations, timeouts and abandonment count as failures.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0220 | B17

Source p. 25

Rare event claims

For zero observed failures in n independent Bernoulli trials, the exact one-sided 95% upper failure-probability bound is $1 - 0.05$ raised to the power of 1 divided by n . Thus approximately 2,995 genuinely independent zero-failure trials are required to support a failure probability below 0.001 at that confidence level. Packet counts in one correlated drive do not constitute that many independent trials. Dependence, multiple comparisons and untested operating conditions shall be addressed in the claimed inference.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0221 | B18

Source p. 25

Decision discipline

Do not round a failing measurement into a pass. Borderline, underpowered or insufficiently representative evidence shall be recorded as not demonstrated. A failed critical gate shall not be offset by passing more scenarios. Protocol deviations shall be listed, assessed for bias and resolved before decision.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex C | Mandatory evidence register

CHECK 0222 | Annex C | part 1/16

Source p. 26

Mandatory evidence register

This annex is normative. Each record shall identify owner, version, assessment object, evidence location and approval status. Records may be combined where traceability remains complete.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0223 | Annex C | source schedule row | part 2/16

Source p. 26

C01 Scope and capability

Record: C01 Scope and capability

Required evidence: Product boundary, modules, market, operating conditions, exclusions

Principal clauses: 1 to 4 and 24

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0224 | Annex C | source schedule row | part 3/16

Source p. 26

C02 Responsibility

Record: C02 Responsibility

Required evidence: Accountable roles, competence, independent review and supplier duties

Principal clauses: 5

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0225 | Annex C | source schedule row | part 4/16

Source p. 26

C03 Risk and dependency

Record: C03 Risk and dependency

Required evidence: Hazards, service contracts, timing budgets, fallback and residual risk

Principal clauses: 5 and 6

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0226 | Annex C | source schedule row | part 5/16

Source p. 26

C04 Human requirements

Record: C04 Human requirements

Required evidence: User populations, tasks, access needs and criticality

Principal clauses: 7 to 11

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0227 | Annex C | source schedule row | part 6/16

Source p. 26

C05 Interaction validation

Record: C05 Interaction validation

Required evidence: Controls, warnings, attention, comprehension and comfort evidence

Principal clauses: 8 to 11 and B

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0228 | Annex C | source schedule row | part 7/16

Source p. 26

C06 Interoperability

Record: C06 Interoperability

Required evidence: Profiles, counterpart independence, version matrix and test outcomes

Principal clauses: 12 and 13

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0229 | Annex C | source schedule row | part 8/16

Source p. 26

C07 Deployment

Record: C07 Deployment

Required evidence: City profile, infrastructure ownership, site evidence and limitations

Principal clauses: 14

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0230 | Annex C | source schedule row | part 9/16

Source p. 26

C08 Journey and energy

Record: C08 Journey and energy

Required evidence: Service chain, price and access flows, failed-attempt records

Principal clauses: 15 and 16

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0231 | Annex C | source schedule row | part 10/16

Source p. 26

C09 Artificial intelligence

Record: C09 Artificial intelligence

Required evidence: Authority boundaries, evaluation data, failure tests and release control

Principal clauses: 17

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0232 | Annex C | source schedule row | part 11/16

Source p. 26

C10 Continuity

Record: C10 Continuity

Required evidence: Fault catalogue, degraded states, recovery and emergency access

Principal clauses: 18

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0233 | Annex C | source schedule row | part 12/16

Source p. 26

C11 Personal data

Record: C11 Personal data

Required evidence: Inventory, permissions, retention, reset and ownership transfer tests

Principal clauses: 19

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0234 | Annex C | source schedule row | part 13/16

Source p. 26

C12 Configuration and changes

Record: C12 Configuration and changes

Required evidence: Version baseline, impact review, update and regression evidence

Principal clauses: 20

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0235 | Annex C | source schedule row | part 14/16

Source p. 26

C13 Validation package

Record: C13 Validation package

Required evidence: Approved plan, instruments, raw data, uncertainty and deviations

Principal clauses: 21 and A to B

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0236 | Annex C | source schedule row | part 15/16

Source p. 26

C14 Operational evidence

Record: C14 Operational evidence

Required evidence: Incidents, exposure, complaints, corrective actions and monitoring

Principal clauses: 22 and 25

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0237 | Annex C | source schedule row | part 16/16

Source p. 26

C15 Decision and claims

Record: C15 Decision and claims

Required evidence: Findings, closure, independent decision, statement and capability record

Principal clauses: 23 and 24

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0238 | C16

Source p. 27

Traceability record

Every applicable requirement shall map to one or more evidence records, and every test result shall map back to the configuration and requirement it addresses. The mapping shall show unresolved gaps and the reason for each not applicable decision.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0239 | C17

Source p. 27

Retention and integrity

Evidence shall be retained for the period required by the assessment scheme and applicable obligations, with a documented rationale supporting the life of the claim. The organization shall protect evidence against unnoticed alteration and preserve access for authorized review without retaining unnecessary personal information.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex D | Assessment statement and capability record

CHECK 0240 | Annex D

Source p. 27

Assessment statement and capability record

This annex is normative. It defines required record fields; it does not issue an assessment result, certificate or authorization to use a mark.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0241 | D01

Source p. 27

Identification

Record the assessment object name, responsible organization, unique product or deployment identifier, hardware and software baseline, relevant model and map versions, and the edition of IAF Smart Mobility applied.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0242 | D02

Source p. 27

Scope

Record selected modules, vehicle or service category, supported markets, languages, user populations, operating domain, city profiles and explicitly unassessed functions. Identify whether the result is for a component, integrated vehicle, service or deployment.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0243 | D03

Source p. 27

Dependencies

List essential infrastructure, connectivity, service, account and counterpart dependencies. State which functions continue without each dependency and the restrictions that apply.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0244 | D04

Source p. 27

Evidence

Identify the assessment plan, test dates, methods, counterpart coverage, participant coverage and evidence register version. Distinguish simulation, controlled tests, field observations and supplier evidence.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0245 | D05

Source p. 27

Results

State the outcome for every module and applicable requirement, unresolved limitations, measured values with uncertainty, finding closure and the independent decision authority. A "not demonstrated" result shall remain visible and shall not be translated into a qualified pass.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0246 | D06

Source p. 27

Continuing applicability

Identify the assessed configuration, support arrangements, monitoring responsibilities and reassessment triggers. Give the status of the statement as current, under review, suspended, withdrawn or superseded according to the actual decision.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0247 | D07

Source p. 27

Public capability summary

The user-facing record shall answer: What was assessed? In which conditions? With which systems? What remains dependent on other services? What does the user need to know when a dependency fails? Where can the current assessment status be checked?

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0248 | D08

Source p. 27

Claim construction

A claim shall use the structure: assessment object; assessed modules; edition; tested configuration; operating scope; assessment status; evidence identifier. It shall not omit limitations that materially change how the result would be understood.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex E | Pilot validation of the standard

CHECK 0249 | Annex E

Source p. 28

Pilot validation of the standard

This annex is normative for adoption of this proposed edition. It applies to IAF's standard development process, in addition to product assessments under the other clauses.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0250 | E01

Source p. 28

Pilot diversity

Before adoption, pilot the requirements on at least three materially different vehicle or service categories, three distinct deployment environments and two independently operated assessment teams. These are minimum diversity floors; the technical review shall expand them where important use cases or populations remain unrepresented.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0251 | E02

Source p. 28

Threshold calibration

Evaluate the proposed task success, attention, comprehension, feedback, interoperability and service thresholds using prespecified endpoints. Determine whether they detect meaningful failures, are practical to measure and create unintended exclusions. A threshold shall not be selected only because most pilot products can pass it.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0252 | E03

Source p. 28

Repeatability and reproducibility

Repeat selected measurements within one team and between the independent teams using the same configurations. Assess measurement uncertainty and agreement on pass, fail and not applicable decisions. Material disagreement shall be resolved through clearer requirements or improved methods before adoption.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0253 | E04

Source p. 28

Population validation

Include relevant age, language, experience, body-size and accessibility variation. Examine whether the protocol systematically misclassifies a declared group or rewards a design that creates a new barrier. Reducing inclusion solely to simplify recruitment shall not resolve a protocol deficiency.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0254 | E05

Source p. 28

Safety review

Examine the proposed gates against known hazard mechanisms and plausible misuse. Confirm that statistical averages cannot conceal critical failure, that time budgets include all relevant stages and that fallback rules do not transfer an unrealistic obligation to a user.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0255 | E06

Source p. 28

Disposition and publication

Maintain a change log showing pilot findings, stakeholder comments, revised text, reasons for numerical changes and the final approval decision. Until this process is complete, identify the edition as a technical proposal and do not claim that its thresholds have been validated.

RESULT

Select 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

ADDITIONAL EVIDENCE, MEASUREMENTS, RATIONALE OR VERIFICATION

CHECK / FINDING ID AND CONTINUATION REFERENCE

ADDITIONAL EVIDENCE, MEASUREMENTS, RATIONALE OR VERIFICATION