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VEYRUM ROBOTICS STANDARD



VRS - DOM - 501

Domestic & Consumer — AR Rubric Data Twin

Machine-readable criteria, tier ceilings, contributors and bands of VRS-DOM-201 (VRS 2026 (draft)); generated, never hand-edited.

VEYRUM RESEARCH INSTITUTE

DOCUMENT

VRS-DOM-501

VERSION

1.0.0

STATUS

Draft

DATE

16 September 2026

Foreword. Data Artifact: the machine-readable twin of **VRS-DOM-201** (VRS 2026 (draft)) — the sector criteria with their point ranges, rungs and tier ceilings, the contributing intrinsic criteria, the letter bands and the application classes — generated FROM the protocol's Clause 5–7 by `tools/vrs-twin-generate.py`. Consistency is by construction and re-verified on every build (conformance check 15). The JSON in Clause 4 is the normative payload; scorer tooling consumes it directly. A change to VRS-DOM-201 and to this twin is one change instrument.

1 Scope

This Data Artifact carries the rubric data of the Domestic & Consumer (DOM) sector in machine-readable form: the 10 sector criteria of VRS-DOM-201 Clause 6 with points, rungs and Unverified / Verified / Certified ceilings; the contributing intrinsic criteria of Clause 5; the letter bands and application classes of Clause 7. It states no independent requirements. Where this artifact and VRS-DOM-201 could be read to differ, VRS-DOM-201 governs and this twin is regenerated to match.

2 Normative references

- **VRS-DOM-201**, *Domestic & Consumer — AR Assessment Protocol* — source protocol twinned (Clauses 5–7).
- **VRS-DOM-001**, *Domestic & Consumer — Sector Standard* — application classes and hazard groups.
- **VRS-GEN-005**, *IR Methodology* — point sum, tier ceilings, no-evidence rule.
- **VRS-GEN-006**, *AR Scheme* — pool mechanics, letter bands, tier caps by construction.
- **VRS-GEN-002**, *Designation and Drafting Rules* — criterion layout (§6.5) and versioning.

3 Terms and definitions

The terms of VRS-GEN-001 and VRS-DOM-201 apply. **data twin** — a machine-readable artifact regenerated one-to-one from a source protocol's normative clauses. **rung** — a named state of a criterion awarding a stated integer number of points (VRS-GEN-002 §3.9). **ceiling** — the maximum points a criterion awards at a stated tier (VRS-GEN-002 §3.10).

4 Payload

Sector criteria total **100** points; ceilings Unverified **70**, Verified **85**, Certified **100**.

```
{
  "_meta": {
    "description": "DOM sector AR rubric data twin – machine-readable form of VRS-DOM-201 Clause 5/6/7 (VRS 2026 (draft)). Generated by tools",
    "edition": "VRS 2026 (draft)",
    "source_protocol": "VRS-DOM-201 v1.0.0",
    "generated": "2026-09-16",
    "conforms_to": "VRS-GEN-005 §6 (point sum, tier ceilings); VRS-GEN-006 §6–§8 (pool, bands, tier caps by construction)"
  },
  "sector_code": "dom",
  "bands_percent": {
    "AAA": 90,
    "AA": 75,
    "A": 60,
    "B": 45,
    "C": 0
  },
  "application_classes": [
    "floor robots (vacuum/mop)",
    "lawn/outdoor consumer",
    "companion/toy",
    "kitchen/assistive appliance"
  ],
  "contributing_ir_criteria": [
    {
      "id": "SF-1",
      "document": "VRS-GEN-101",
      "clause": "6.1"
    },
    {
      "id": "SF-2",
      "document": "VRS-GEN-101",
      "clause": "6.2"
    }
  ]
}
```

```

    "id": "SF-6",
    "document": "VRS-GEN-101",
    "clause": "6.6"
  },
  {
    "id": "SF-7",
    "document": "VRS-GEN-101",
    "clause": "6.7"
  },
  {
    "id": "SF-8",
    "document": "VRS-GEN-101",
    "clause": "6.8"
  },
  {
    "id": "RL-8",
    "document": "VRS-GEN-102",
    "clause": "6.8"
  },
  {
    "id": "SV-1",
    "document": "VRS-GEN-103",
    "clause": "6.1"
  },
  {
    "id": "SV-5",
    "document": "VRS-GEN-103",
    "clause": "6.5"
  },
  {
    "id": "SV-8",
    "document": "VRS-GEN-103",
    "clause": "6.8"
  },
  {
    "id": "CY-2",
    "document": "VRS-GEN-105",
    "clause": "6.2"
  },
  {
    "id": "CY-3",
    "document": "VRS-GEN-105",
    "clause": "6.3"
  },
  {
    "id": "CY-6",
    "document": "VRS-GEN-105",
    "clause": "6.6"
  },
  {
    "id": "MS-4",
    "document": "VRS-GEN-106",
    "clause": "6.4"
  },
  {
    "id": "MS-7",
    "document": "VRS-GEN-106",
    "clause": "6.7"
  },
  {
    "id": "SI-2",
    "document": "VRS-GEN-104",
    "clause": "6.2"
  },
  {
    "id": "SI-3",
    "document": "VRS-GEN-104",
    "clause": "6.3"
  }

```

```

    },
    {
      "id": "SI-6",
      "document": "VRS-GEN-104",
      "clause": "6.5"
    },
    {
      "id": "EC-1",
      "document": "VRS-GEN-107",
      "clause": "6.1"
    },
    {
      "id": "EC-4",
      "document": "VRS-GEN-107",
      "clause": "6.4"
    }
  ],
  "sector_criteria": [
    {
      "clause": "6.1",
      "id": "DOM-1",
      "name": "Consumer-safety anchor conformity (IEC 60335 / GPSR / UL listing)",
      "points_max": 14,
      "what_is_measured": ".",
      "rungs": [
        {
          "points": 14,
          "state": "third-party listing/certificate for the whole product (UL/ETL/TÜV mark)"
        },
        {
          "points": 11,
          "state": "pack-evidenced (documents), not demonstrated"
        },
        {
          "points": 10,
          "state": "notified-body/regulatory conformity"
        },
        {
          "points": 8,
          "state": "self-declared with test reports"
        },
        {
          "points": 4,
          "state": "self-declaration only"
        },
        {
          "points": 0,
          "state": "not established"
        }
      ],
      "ceiling": {
        "unverified": 8,
        "verified": 11,
        "certified": 14
      },
      "company_wide": null,
      "evidence_bar": "Declaration/listing for the rated version.",
      "applicability": "floor robots (vacuum/mop) · lawn/outdoor consumer · companion/toy · kitchen/assistive appliance. DOM-3 (cliff/stairs)",
      "not_applicable_by_class": false
    },
    {
      "clause": "6.2",
      "id": "DOM-2",
      "name": "Child and pet contact protection",
      "points_max": 14,
      "what_is_measured": "Pinch/entrapment/ingestion-of-parts protections; contact force on small obstacles; brush/blade guarding.",
      "rungs": [
        {

```

```

    "points": 14,
    "state": "witnessed with child-hand/paw test probes"
  },
  {
    "points": 11,
    "state": "pack-evidenced (documents), not demonstrated"
  },
  {
    "points": 10,
    "state": "certified ((public))"
  },
  {
    "points": 8,
    "state": "independently tested"
  },
  {
    "points": 5,
    "state": "documented"
  },
  {
    "points": 0,
    "state": "not established"
  }
],
"ceiling": {
  "unverified": 8,
  "verified": 11,
  "certified": 14
},
"company_wide": null,
"evidence_bar": "Guarding described.",
"applicability": "floor robots (vacuum/mop) · lawn/outdoor consumer · companion/toy · kitchen/assistive appliance. DOM-3 (cliff/stairs)",
"not_applicable_by_class": false
},
{
  "clause": "6.3",
  "id": "DOM-3",
  "name": "Cliff, stair and ledge behaviour",
  "points_max": 10,
  "what_is_measured": "No fall from declared ledge height on declared floor types incl. dark carpet.",
  "xungs": [
    {
      "points": 10,
      "state": "witnessed all floor types"
    },
    {
      "points": 9,
      "state": "pack-evidenced (documents), not demonstrated"
    },
    {
      "points": 8,
      "state": "independently tested (editorial labs)"
    },
    {
      "points": 7,
      "state": "publicly evidenced only (no pack, no demonstration)"
    },
    {
      "points": 5,
      "state": "documented"
    },
    {
      "points": 0,
      "state": "not established. · 0. Mobile classes only"
    }
  ],
  "ceiling": {
    "unverified": 7,

```

```

    "verified": 9,
    "certified": 10
  },
  "company_wide": null,
  "evidence_bar": "Applies to mobile classes; ledge/floor envelope declared.",
  "applicability": "floor robots (vacuum/mop) · lawn/outdoor consumer · companion/toy · kitchen/assistive appliance. DOM-3 (cliff/stairs)",
  "not_applicable_by_class": false
},
{
  "clause": "6.4",
  "id": "DOM-4",
  "name": "Battery and charging fire safety",
  "points_max": 12,
  "what_is_measured": "Cell/pack certification (IEC 62133 / UL 2054), charger interlocks, thermal cut-offs; no fire/thermal events in pub",
  "rungs": [
    {
      "points": 12,
      "state": "certificates + witnessed interlocks"
    },
    {
      "points": 10,
      "state": "certificates public"
    },
    {
      "points": 9,
      "state": "publicly evidenced only (no pack, no demonstration)"
    },
    {
      "points": 6,
      "state": "documented"
    },
    {
      "points": 0,
      "state": "not established"
    }
  ],
  "ceiling": {
    "unverified": 9,
    "verified": 10,
    "certified": 12
  },
  "company_wide": null,
  "evidence_bar": "Battery chemistry/pack declared.",
  "applicability": "floor robots (vacuum/mop) · lawn/outdoor consumer · companion/toy · kitchen/assistive appliance. DOM-3 (cliff/stairs)",
  "not_applicable_by_class": false
},
{
  "clause": "6.5",
  "id": "DOM-5",
  "name": "Foreseeable misuse tolerance",
  "points_max": 8,
  "what_is_measured": "Behaviour under manual-contradicting use: wet use, blocked sensors, DIY parts, overload.",
  "rungs": [
    {
      "points": 8,
      "state": "witnessed declared cases"
    },
    {
      "points": 7,
      "state": "pack-evidenced (documents), not demonstrated"
    },
    {
      "points": 6,
      "state": "independently tested"
    },
    {
      "points": 3,
      "state": "documented warnings only"
    }
  ]
}

```

```

    },
    {
      "points": 0,
      "state": "not established"
    }
  ],
  "ceiling": {
    "unverified": 6,
    "verified": 7,
    "certified": 8
  },
  "company_wide": null,
  "evidence_bar": "Misuse warnings exist.",
  "applicability": "floor robots (vacuum/mop) · lawn/outdoor consumer · companion/toy · kitchen/assistive appliance. DOM-3 (cliff/stairs)",
  "not_applicable_by_class": false
},
{
  "clause": "6.6",
  "id": "DOM-6",
  "name": "In-home data capture and account security",
  "points_max": 12,
  "what_is_measured": "What is captured (camera/mic/maps), local-vs-cloud, retention, deletion, account 2FA, third-party sharing.",
  "rungs": [
    {
      "points": 12,
      "state": "shown on device/app + independent privacy audit"
    },
    {
      "points": 9,
      "state": "documented in detail (privacy notice, security page)"
    },
    {
      "points": 8,
      "state": "publicly evidenced only (no pack, no demonstration)"
    },
    {
      "points": 5,
      "state": "partial"
    },
    {
      "points": 0,
      "state": "not established"
    }
  ],
  "ceiling": {
    "unverified": 8,
    "verified": 9,
    "certified": 12
  },
  "company_wide": null,
  "evidence_bar": "Privacy disclosure exists.",
  "applicability": "floor robots (vacuum/mop) · lawn/outdoor consumer · companion/toy · kitchen/assistive appliance. DOM-3 (cliff/stairs)",
  "not_applicable_by_class": false
},
{
  "clause": "6.7",
  "id": "DOM-7",
  "name": "Support life and end-of-life behaviour",
  "points_max": 10,
  "what_is_measured": "Published software-support horizon; device remains safe and locally usable after EOL; no forced obsolescence.",
  "rungs": [
    {
      "points": 10,
      "state": "≥ 5-yr horizon published + local-mode after EOL shown"
    },
    {
      "points": 9,
      "state": "pack-evidenced (documents), not demonstrated"
    }
  ]
}

```

```

    },
    {
      "points": 7,
      "state": "horizon published"
    },
    {
      "points": 6,
      "state": "publicly evidenced only (no pack, no demonstration)"
    },
    {
      "points": 4,
      "state": "policy stated"
    },
    {
      "points": 1,
      "state": "horizon passed, no statement"
    },
    {
      "points": 0,
      "state": "not established"
    }
  ],
  "ceiling": {
    "unverified": 6,
    "verified": 9,
    "certified": 10
  },
  "company_wide": null,
  "evidence_bar": "None.",
  "applicability": "floor robots (vacuum/mop) · lawn/outdoor consumer · companion/toy · kitchen/assistive appliance. DOM-3 (cliff/stairs)",
  "not_applicable_by_class": false
},
{
  "clause": "6.8",
  "id": "DOM-8",
  "name": "Consumer recall and incident record",
  "points_max": 10,
  "what_is_measured": "CPSC / Safety Gate / national recall databases and incident reports over the window.",
  "rungs": [
    {
      "points": 10,
      "state": "none, model-specific"
    },
    {
      "points": 8,
      "state": "company-wide record in place of model-specific data"
    },
    {
      "points": 7,
      "state": "recalls remediated with published effectiveness"
    },
    {
      "points": 3,
      "state": "null-result rung"
    },
    {
      "points": 0,
      "state": "unremediated. Regime-full at Unverified"
    }
  ],
  "ceiling": {
    "unverified": 10,
    "verified": 10,
    "certified": 10
  },
  "company_wide": {
    "text": "Company-wide → 8",
    "ceiling": 8
  }
}

```

```

    },
    "evidence_bar": "None.",
    "applicability": "floor robots (vacuum/mop) · lawn/outdoor consumer · companion/toy · kitchen/assistive appliance. DOM-3 (cliff/stairs)",
    "not_applicable_by_class": false
  },
  {
    "clause": "6.9",
    "id": "DOM-9",
    "name": "Recall reach and remediation capability",
    "points_max": 6,
    "what_is_measured": "Ability to reach a dispersed consumer fleet: registration rate, OTA reach, notification channels, published recall",
    "rungs": [
      {
        "points": 6,
        "state": "demonstrated reach + published effectiveness"
      },
      {
        "points": 5,
        "state": "pack-evidenced or company-wide record"
      },
      {
        "points": 4,
        "state": "mechanisms documented"
      },
      {
        "points": 2,
        "state": "registration only"
      },
      {
        "points": 0,
        "state": "not established"
      }
    ],
    "ceiling": {
      "unverified": 4,
      "verified": 5,
      "certified": 6
    },
    "company_wide": {
      "text": "Company-wide → 5",
      "ceiling": 5
    },
    "evidence_bar": "None.",
    "applicability": "floor robots (vacuum/mop) · lawn/outdoor consumer · companion/toy · kitchen/assistive appliance. DOM-3 (cliff/stairs)",
    "not_applicable_by_class": false
  },
  {
    "clause": "6.10",
    "id": "DOM-10",
    "name": "Repairability and parts for owners",
    "points_max": 4,
    "what_is_measured": "Owner-replaceable consumables/parts, public parts store, repair guides.",
    "rungs": [
      {
        "points": 4,
        "state": "all"
      },
      {
        "points": 2,
        "state": "parts store only"
      },
      {
        "points": 0,
        "state": "not established"
      }
    ],
    "ceiling": {
      "unverified": 4,

```

```

    "verified": 4,
    "certified": 4
  },
  "company_wide": null,
  "evidence_bar": "None.",
  "applicability": "floor robots (vacuum/mop) · lawn/outdoor consumer · companion/toy · kitchen/assistive appliance. DOM-3 (cliff/stairs)",
  "not_applicable_by_class": false
}
],
"pool": {
  "sector_only": {
    "points": 100,
    "ceiling_unverified": 70,
    "ceiling_verified": 85,
    "ceiling_certified": 100,
    "best_letter": {
      "unverified": "A",
      "verified": "AA",
      "certified": "AAA"
    }
  },
  "with_contributors": "contributor ceilings are those of the cited IR standards; the combined pool sums are verified by the conformance ga",
  "rules": {
    "no_evidence": "0 points (VRS-GEN-005 §6, R3.3); the criterion stays in the pool at full range",
    "not_applicable": "criterion removed from numerator and denominator for that class (VRS-GEN-006 §6)",
    "tier_rule": "AR tier ≤ IR tier (VRS-GEN-006 §7)"
  }
}
}
```

5 5 Field dictionary

FIELD	MEANING
sector_criteria[].clause	VRS-DOM-201 subclause (6.k) — the “Required by” reference used in derived packs and protocols
sector_criteria[].points_max	Upper end of the criterion’s integer range
sector_criteria[].rungs[]	Every verifiable state and its points, highest first; the 0 state is implicit where not listed
sector_criteria[].ceiling	Maximum points at each tier; always equal to a rung value (VRS-GEN-002 §7.5.1)
sector_criteria[].company_wide	Field-record criteria only: the reduced ceiling when company-wide data substitutes for model data
sector_criteria[].applicability / not_applicable_by_class	Application classes the criterion applies to; excluded criteria leave the pool for that class
contributing_ir_criteria[]	Intrinsic criteria counted in the sector pool, with the standard and clause that score them
pool.sector_only	Sums over the sector criteria and the best attainable letter at each tier (A / AA / AAA by construction)
bands_percent	Letter thresholds as a percentage of the applicable pool (VRS-GEN-006 §4)

6 6 Verification

Regenerate with `python3 tools/vrs-twin-generate.py --sector dom --check` ; a non-zero exit means the committed twin no longer matches VRS-DOM-201 and shall be regenerated before publication.

7 Bibliography

- VRS-DOM-201, *Domestic & Consumer — AR Assessment Protocol*, v1.0.0, 2026 — the source of every number in Clause 4.
- VRS-DOM-001, *DOM Sector Standard*, 2026 — sector scope, hazard taxonomy and application classes.
- VRS-GEN-005, *Intrinsic Rating — Methodology*, 2026 — point aggregation and tier ceilings for the contributing IR criteria.
- VRS-GEN-006, *Application Rating Scheme*, 2026 — letter bands and pool mechanics reproduced in `bands_percent` and `pool`.
- VRS-GEN-002, *Designation and Drafting Rules*, 2026 — §6.5 criterion layout and §7.5.1 (ceilings equal rungs) that this twin verifies.

- VRS-GEN-004, *Change, Edition and Review Policy*, 2026 — how a twin regeneration is designated.
- VRS-GEN-009, *Robot Risk Passport and Registry — Data Schema*, 2026 — consumer of the payload.
- ISO/IEC 21778:2017, *Information technology — The JSON data interchange syntax*.

8 Change history

VERSION	DATE	CHANGE
1.0.0 (draft)	2026-09-16	VRS 2026 (draft) rewrite: regenerated from VRS-DOM-201 Clause 5–7 (criteria, rungs, tier ceilings, contributors, bands, classes). Weights, modifiers, confidence and stage- prior fields removed.

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