

| System REQ ID | T <sub>r</sub> Requirement Description  | Checklist QualityCriteria ID | Yes/No N/A | T <sub>r</sub> Reviewer | 📅 Date     | T <sub>r</sub> Comments | T <sub>r</sub> Action(s) | 🔗 Status of action(s) |
|---------------|---|------------------------------|------------|-------------------------|------------|-------------------------|--------------------------|-----------------------|
| PM-01         | The protocol module shall define the procedures will be taken so that all agents are aware of the prevailing mission state. | QC-1                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-2                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-3                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-4                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-5                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-6                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-7                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-8                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-9                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-10                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-11                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-12                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-13                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-14                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-15                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
| PM-02         | The protocol module shall define the procedures that all agents shall follow to share the mission plan.                     | QC-1                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-2                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-3                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-4                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-5                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-6                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-7                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-8                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-9                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-10                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-11                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-12                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-13                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-14                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-15                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
| PM-03         | The protocol module shall define procedures on how tasks are assigned to agents depending on the mission plan.              | QC-1                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-2                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |

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|               |  | QC-3                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-4                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-5                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-6                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-7                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-8                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-9                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-10                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-11                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-12                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-13                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-14                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-15                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
| PM-04         | The protocol module shall define the procedures that all agents shall follow to indicate their (all agents) capabilities.      | QC-1                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-2                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-3                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-4                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-5                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-6                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-7                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-8                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-9                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-10                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-11                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-12                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-13                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-14                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-15                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
| PM-05         | The protocol module shall define the message formats that all agents shall use to communicate their (all agents) capabilities. | QC-1                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-2                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-3                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-4                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |

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|               |   | QC-5                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-6                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-7                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-8                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-9                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-10                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-11                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-12                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-13                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-14                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-15                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
| PM-06         | The protocol module shall define the procedures that all agents follow to assign tasks to agents based on the agents' capabilities. | QC-1                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-2                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-3                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-4                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-5                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-6                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-7                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-8                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-9                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-10                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-11                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-12                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-13                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-14                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-15                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
| PM-07         | The protocol module shall define the rules that all agents will adhere to when re-assigning tasks.                                  | QC-1                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-2                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-3                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-4                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-5                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |   | QC-6                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |

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|---------------|--|------------------------------|------------|-------------------------|------------|-------------------------|--------------------------|-----------------------|
|               |  | QC-7                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-8                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-9                         | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-10                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-11                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-12                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-13                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-14                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
|               |  | QC-15                        | Yes        | E.Z                     | 2025-10-30 |                         |                          | No action needed      |
| PM-08         | The protocol module shall define the procedures that agents follow to exchange task re-assignment proposals.           | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-09         | The protocol module shall define the message format that all agents will use to exchange task re-assignment proposals. | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |

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|               |  | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-10         | The protocol module shall define the procedure that agents experiencing degrade functionality shall follow so as to communicate their degraded status to other agents. | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-11         | The protocol module shall define the rules that agents follow to identify the criticality of tasks.  | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |

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|               |  | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-12         | The protocol module shall define procedures that agents follow to assign high-criticality tasks to fully functional agents when any agent's functionality becomes degraded.                                    | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-13         | The protocol module shall define procedures that agents follow to assign lower-criticality tasks to agents experiencing degraded functionality based on their (the degraded agent(s)) prevailing capabilities. | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |

| System REQ ID | T <sub>r</sub> Requirement Description   | Checklist QualityCriteria ID | Yes/No N/A | T <sub>r</sub> Reviewer | 📅 Date     | T <sub>r</sub> Comments | T <sub>r</sub> Action(s) | 🔍 Status of action(s) |
|---------------|--|------------------------------|------------|-------------------------|------------|-------------------------|--------------------------|-----------------------|
|               |  | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-14         | The protocol module shall define the rules that agents follow to reach agreement on correct data, even if at least one agent provides incorret data. | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-15         | The protocol module shall define the rules that agents will follow to reach a collective decision for tasks that require coordination.               | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |  | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |

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|---------------|---|------------------------------|------------|-------------------------|------------|-------------------------|--------------------------|-----------------------|
|               |   | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-16         | The protocol module shall define the procedures that agents will follow to reach a collective decision for tasks that require coordination. | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-17         | The protocol module shall define the rules that agents follow to share information about the boundaries of their assigned search areas.     | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-18         | The protocol module shall define the message-exchange rules that enable agents and agree on which agent searches what portion of the area.  | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |



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|---------------|--|------------------------------|------------|------------|------------|------------|-------------|-----------------------|
|               |  | QC-2                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-3                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-4                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-5                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-6                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-7                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-8                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-9                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-10                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-11                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-12                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-13                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-14                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-15                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
| PM-19         | The protocol module shall define the conditions under which an agent is permitted to make independent decisions without prior consensus. | QC-1                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-2                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-3                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-4                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-5                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-6                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-7                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-8                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-9                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-10                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-11                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-12                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-13                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-14                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-15                        | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
| PM-20         | The protocol module shall define the procedures that agents follow to notify other agents after taking an independent action.            | QC-1                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-2                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |
|               |  | QC-3                         | Yes        | E.Z        | 2025-10-31 |            |             | No action needed      |

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|---------------|---|------------------------------|------------|-------------------------|------------|-------------------------|--------------------------|-----------------------|
|               |   | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-21         | The protocol module shall define the rules that agents follow to reintegrate independent decisions into the swarm's shared state once the communication with other agents is resumed. | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-14B        | The protocol module shall define procedures that allow agents to mitigate incorrect data received from at least one agent during consensus.   | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |

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|---------------|---|------------------------------|------------|-------------------------|------------|-------------------------|--------------------------|-----------------------|
|               |   | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
| PM-14C        | The protocol module shall define the rules that ensure agents base their consensus decisions only on verified data. | QC-1                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-2                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-3                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-4                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-5                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-6                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-7                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-8                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-9                         | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-10                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-11                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-12                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-13                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-14                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |
|               |   | QC-15                        | Yes        | E.Z                     | 2025-10-31 |                         |                          | No action needed      |