

**Justification technique des normes de
fiabilité IRO-010-5 et TOP-003-6.1
(version anglaise)**

Technical Rationale for Reliability Standard IRO-010-5

July 2023

IRO-010-5 – Reliability Coordinator Data and Information Specification and Collection

Rationale:

The primary purpose of this project is to reduce unnecessary administrative overhead and reduce potential zero defect expectations associated with the current IRO-010-4 and TOP-003-5 standards. Also ensuring that Registered Entities request and receive the data and information necessary to support the core reliability tasks required to perform Operational Planning Analysis, Real-time Assessments, and Real-time monitoring, and Balancing Authority analysis functions.

The core reliability tasks for Reliability Coordinators identified in IRO-010 are identified as Operational Planning Analysis, Real-time Assessments, and Real-time monitoring.

The SDT reviewed standards listed in the SAR's Detailed Description to determine whether additional changes could be proposed to the standards to address potential redundancy of requirements related to the four reliability tasks identified in IRO-010-4 and TOP-003-5. The SDT also reviewed the results of the Standards Efficiency Review initiative. Due to the criticality of the tasks and functions identified in (standards listed in the SAR's Detailed Description), the SDT determined there is insufficient justification(s) for the retirement of these requirements and are not proposing changes to the reviewed standards. For further information on the justification(s) for not proposing additional retirements or consolidation of existing requirements into IRO-010-4 or TOP-003-5 see the white paper titled **White Paper for 2021-06 Modifications to IRO-010 and TOP-003** with the project document.

The data specification requirements in IRO-010-5 and TOP-003-6 are substantively similar, if not functionally identical therefore the SDT has revised both standards so that the language is parallel in form and function and uses similar vernacular in describing the underlying requirements.

The SDT has drafted revisions in a manner that retains flexibility for applicable entities to utilize available technologies, integrate new technologies, and to define expectations for data and information exchange. This allows entities to continue to receive the data and information they believe is necessary to perform its functions and promote reliability.

Proposed revisions include Title, Purpose, and Requirements sections.

Rationale for Title

The proposed Title change from “Reliability Coordinator Data Specification and Collection” to “Reliability Coordinator Data and Information Specification and Collection” acknowledges that the specifications are for the collection of both Data and Information.

Rationale for Purpose

The proposed changes to IRO-010-5 purpose is to align with the purpose of TOP-003. Throughout the standard, the SDT used the terms “data” and “information” to clarify that specifications include both “data and information.” The intent is to include data and information necessary for Reliability Coordinators to perform their core reliability tasks. The revision clarifies that specifications can contain other data/information in addition to data typically provided systematically from field devices via SCADA/ICCP.

In addition to monitoring and assessing stated in the previous version of the standard, both data and information are necessary for satisfying all of the identified core reliability tasks. The tasks include planning activities, therefore the purpose has been clarified by including planning, monitoring, and assessing operations.

Rationale for Requirement R1

R1 is revised to clarify that specifications include both data and information that a Reliability Coordinator requires. This also aligns with the Purpose of the Standard.

Rationale for Subpart R1.1

R1 is revised to include not only the list of data and Information that the requestor needs for the core reliability tasks, but also to identify the applicable entity that is required to respond to the request for the specification. The purpose is to ensure that data and information specifications clearly identify the responsible parties that need to comply with the request.

Rationale for Subpart R1.4

R1.4 is revised to include a data conflict resolution provision within the data specification requirements. The previous content referring to resolving data conflicts was located in Requirement R3.2, and was moved to R1 so that the data specification requirements were contained in one requirement, rather multiple requirements.

R1.4 identifies a requirement for a mutually agreeable process for resolving conflicts between the Reliability Coordinator and the respondent. Placement of this sub part under R1, establishes the inclusion of this process in the data specification itself. By establishing conflict resolution as sub part of the requirement, requestors would be expected to establish processes directly with the responding parties, to improve upon, requests, responses, and performance expectations. The provision will establish the process for resolving disagreements while retaining the requestor’s authority to request data it needs. Respondents would be expected to engage the requestor about the respondent’s concerns using the established process contained in the data request. These concerns could include, for example, concerns for managing risks for public disclosure of commercially sensitive information, or for establishing a dispute

resolution process for conflicts between entities related to necessary data exchanges, or to establish data correction protocols.

Rationale for Subpart R1.5

R1.5 identifies that specifications should include protocols to address periodicity, performance criterion, and to provide update and correction mechanisms. In addition, identification of the mutually agreed upon format is removed from R3.1 and placed in R1.5.4, and the identification of security protocols have been removed from R3.3 and placed in R.1.5.5. Moving format and security protocols into R1 is appropriate so that the data specification requirements are contained in one requirement, rather multiple requirements.

- R1.5.1 is revised to include deadlines and periodicity (as previously included in R1.4) for data and information to address data that is expected to be updated on different time frames; The inclusion of deadlines addresses data provisions that may be immediate, one-time, or that do not have recurring periods.
- R1.5.2 is revised to address performance criterion for the availability and accuracy of data and information necessary to mitigate expectations of zero-defect compliance. Such expectations may or may not be reasonable, and this language permits requestors to specify where an expectation of zero-defect compliance is necessary.
- R1.5.3 is revised to address provisions to update or correct responsible respondent data and information. This requirement allows for inclusion of protocols to aid in rectifying data and information errors that requestors need to mitigate zero defect compliance.
- R1.5.4 moves the necessity for a mutually agreeable format into the specification, as a requirement of the specification itself. As stated above, the inclusion of this requirement as a sub-part of R1 is to include processes related to the data specification under one requirement.
- R1.5.5 has included the security protocol by requiring a method for securely transferring data and information. The requirement acknowledges that data and information may not require a protocol but may require an agreed upon method for secure transfer, or both. As stated above, the inclusion of this requirement as a sub-part of R1 is to include processes related to the data specification under one requirement.

R1.5 recognizes that the protocols are not limited to these identified requirements; allowing entities the flexibility to include protocols to address differences in organizations, operational environments, processes and technologies provide flexibility to define specifications which reduce administrative overhead and potential zero-defect approaches.

Rationale for Requirement R2

R2 is revised to add the term “and Information” for consistency.

Rationale for Requirement R3

R3 is revised to require the Respondents to satisfy the documented specification based on the criterion established in R1.

Version 4 Requirement	Revision	Version 5
R1.4	Revised	R1.5.1
None	Newly added	R1.5
R3.1	Moved	R1.6

Technical Rationale for Reliability Standard

TOP-003-6

July 2023

TOP-003-6 – Transmission Operator and Balancing Authority Data and Information Specification and Collection

Rationale:

The primary purpose of this project is to reduce unnecessary administrative overhead and reduce potential zero defects expectations associated with the current IRO-010-4 and TOP-003-5 standards. Also, ensuring that Registered Entities request and receive the data and information necessary to support the four reliability tasks required to perform Operational Planning Analysis, Real-time Assessments, Real-time monitoring, and Balancing Authority analysis functions.

The SDT reviewed standards listed in the SAR's Detailed Description to determine whether additional changes could be proposed to the standards to address potential redundancy of requirements related to the four reliability tasks identified in IRO-010-5 and TOP-003-6. The SDT also reviewed the results of the Standards Efficiency Review initiative. Due to the criticality of the tasks and functions identified in (standards listed in the SAR's Detailed Description), the SDT determined there is insufficient justification(s) for the retirement of these requirements and are not proposing changes to the reviewed standards. For further information on the justification(s) for not proposing additional retirements or consolidation of existing requirements into IRO-010-4 or TOP-003-5 see the white paper titled **White Paper for 2021-06 Modifications to TOP-003 and IRO-010** with the project documents.

The data specification requirements in IRO-010-5 and TOP-003-6 are substantively similar, if not functionally identical therefore the SDT has revised both standards so that the language is parallel in form and function and uses similar vernacular in describing the underlying requirements.

The SDT has drafted revisions in a manner that retains flexibility for applicable entities to utilize available technologies, integrate new technologies, and to define expectations for data and information exchange. This allows entities to continue to receive the data and information they believe is necessary to perform its functions and promote reliability.

Proposed revisions include Title, Purpose, and Requirements sections.

Rationale for Title

The proposed Title change from "Operational Reliability Data" to "Transmission Operator and Balancing Authority Data and Information Specification and Collection" aligns with the Title section of IRO-010-5. This revision refers to the function of the standard whereas the previous title suggests a broader purpose than the four identified core reliability tasks.

Rationale for Purpose

The proposed changes to Purpose in TOP-003 align with the purpose of IRO-010-5. The two standards are companions, whereas the former applies to RC data specifications, this standard applies to TOP and BA specifications. Throughout the standard, the SDT used the terms “data” and “information” to clarify that specifications include both “data and information.” The intent is to include data and information necessary for Transmission Operators and Balancing Authorities to perform their core reliability tasks. The revision clarifies that specifications can contain other data/information in addition to data typically provided systematically from field devices via SCADA/ICCP.

In addition to operational planning stated in the previous version of the standard, both data and information are necessary for satisfying the four identified core reliability tasks. The four tasks include monitoring and assessing activities, therefore the purpose has been clarified by including planning, monitoring, and assessing operations.

Rationale for Requirement R1

R1 is revised to clarify that specifications include both data and information that a Transmission Operator requires. This also aligns with the Purpose of the Standard.

Rationale for Subpart R1.1

R1 is revised to include not only the list of data and Information that the requestor needs for the four core reliability tasks, but also to identify the applicable entity that is required to respond to the request for the specification. The purpose is to ensure that data and information specifications clearly identify the responsible parties that need to comply with the request.

Rationale for Subpart R1.4

R1.4 is revised to include a data conflict resolution provision within the data specification requirements. The previous content referring to resolving data conflicts was located in Requirement R3.2, and was moved to R1 so that the data specification requirements were contained in one requirement, rather than multiple requirements.

R1.4 identifies a requirement for a mutually agreeable process for resolving conflicts between the Transmission Operator and the respondent. Placement of this sub part under R1, establishes the inclusion of this process in the data specification itself. By establishing conflict resolution as sub part of the requirement, requestors would be expected to establish processes directly with the responding parties, to improve upon, requests, responses, and performance expectations. The provision will establish the process for resolving disagreements while retaining the requestor’s authority to request data it needs. Respondents would be expected to engage the requestor about the respondent’s concerns using the established process contained in the data request. These concerns could include, for example, concerns for managing risks for public disclosure of commercially sensitive information, or for establishing a dispute resolution process for conflicts between entities related to necessary data exchanges, or to establish data correction protocols.

Rationale for Subpart R1.5

R1.5 identifies that specifications should include protocols to address periodicity, performance criterion, and to provide update and correction mechanisms. In addition, identification of the mutually agreed upon format is removed from R5.1 and placed in R1.5.4, and the identification of security protocols have been removed from R5.3 and placed in R1.5.5. Moving format and security protocols into R1 is appropriate so that the data specification requirements are contained in one requirement, rather multiple requirements.

- R1.5.1 is revised to include deadlines and periodicity (as previously included in R1.4) for data and information to address data that is expected to be updated on different time frames; The inclusion of deadlines addresses data provisions that may be immediate, one-time, or that do not have recurring periods.
- R1.5.2 is revised to address performance criterion for the availability and accuracy of data and information necessary to mitigate expectations of zero-defect compliance. Such expectations may or may not be reasonable, and this language permits requestors to specify where an expectation of zero-defect compliance is necessary.
- R1.5.3 is revised to address provisions to update or correct responsible respondent data and information. This requirement allows for inclusion of protocols to aid in rectifying data and information errors that requestors need to mitigate zero defect compliance.
- R1.5.4 moves the necessity for a mutually agreeable format into the specification, as a requirement of the specification itself. As stated above, the inclusion of this requirement as a sub-part of R1 is to include processes related to the data specification under one requirement.
- R1.5.5 has included the security protocol by requiring a method for securely transferring data and information. The requirement acknowledges that data and information may not require a protocol but may require an agreed upon method for secure transfer, or both. As stated above, the inclusion of this requirement as a sub-part of R1 is to include processes related to the data specification under one requirement.

R1.5 recognizes that the protocols are not limited to these identified requirements; allowing entities the flexibility to include protocols to address differences in organizations, operational environments, processes and technologies provide flexibility to define specifications which reduce administrative overhead and potential zero-defect approaches.

Rationale for Requirement R2

R2 is revised to clarify that specifications include both data and information that a Balancing Authority requires. This also aligns with the Purpose of the Standard.

Rationale for Subpart R2.1

R2 is revised to include not only the list of data and Information that the requestor needs for the core reliability tasks, but also to identify the applicable entity that is required to respond to the request for the specification. The purpose is to ensure that data and information specifications clearly identify the responsible parties that need to comply with the request

Rationale for Subpart R2.4

R2.4 is revised to include a data conflict resolution provision within the data specification requirements. The previous content referring to resolving data conflicts was located in Requirement R3.2, and was moved to R1 so that the data specification requirements were contained in one requirement, rather than multiple requirements.

R2.4 identifies a requirement for a mutually agreeable process for resolving conflicts between the Balancing Authority and the respondent. Placement of this sub part under R2, establishes the inclusion of this process in the data specification itself. By establishing conflict resolution as a sub part of the requirement, requestors would be expected to establish processes directly with the responding parties, to improve upon, requests, responses, and performance expectations. The provision will establish the process for resolving disagreements while retaining the requestor's authority to request data it needs. Respondents would be expected to engage the requestor about the respondent's concerns using the established process contained in the data request. These concerns could include, for example, concerns for managing risks for public disclosure of commercially sensitive information, or for establishing a dispute resolution process for conflicts between entities related to necessary data exchanges, or to establish data correction protocols.

Rationale for Subpart R2.5

R2.5 identifies that specifications should include protocols to address periodicity, performance criterion, and to provide update and correction mechanisms. In addition, identification of the mutually agreed upon format is removed from R5.1 and placed in R2.5.4, and the identification of security protocols have been removed from R5.3 and placed in R2.5.5. Moving format and security protocols into R2 is appropriate so that the data specification requirements are contained in one requirement, rather than multiple requirements.

- R2.5.1 is revised to include deadlines and periodicity (as previously included in R2.4) for data and information to address data that is expected to be updated on different time frames; The inclusion of deadlines addresses data provisions that may be immediate, one-time, or that do not have recurring periods.
- R2.5.2 is revised to address performance criterion for the availability and accuracy of data and information necessary to mitigate expectations of zero-defect compliance. Such expectations may or may not be reasonable, and this language permits requestors to specify where an expectation of zero-defect compliance is necessary.
- R2.5.3 is revised to address provisions to update or correct responsible respondent data and information. This requirement allows for inclusion of protocols to aid in rectifying data and information errors that requestors need to mitigate zero defect compliance.
- R2.5.4 moves the necessity for a mutually agreeable format into the specification, as a requirement of the specification itself. As stated above, the inclusion of this requirement as a sub-part of R1 is to include processes related to the data specification under one requirement.
- R2.5.5 has included the security protocol by requiring a method for securely transferring data and information. The requirement acknowledges that data and information may not require a

protocol but may require an agreed upon method for secure transfer, or both. As stated above, the inclusion of this requirement as a sub-part of R1 is to include processes related to the data specification under one requirement.

R2.5 recognizes that the protocols are not limited to these identified requirements; allowing entities the flexibility to include protocols to address differences in organizations, operational environments, processes and technologies provide flexibility to define specifications which reduce administrative overhead and potential zero-defect approaches.

Rationale for Requirement R3

R3 is revised to add the term “and Information” for consistency.

Rationale for Requirement R4

R4 is revised to add the term “and Information” for consistency.

Rationale for Requirement R5

R5 is revised to require the Respondents to satisfy the documented specification based on the criterion established in R1 for requests originating from Transmission Operator specifications.

R5 is revised to require the Respondents to satisfy the documented specification based on criterion established in R2 for requests originating from Balancing Authority specifications.