# Establishment and Authority

The Data and Energy Management System Work Group (DEMSWG) was established by the Situational Awareness and Security Monitoring Subcommittee (SASMS).

# Purpose and Responsibilities

The purpose of the DEMSWG is to:

* Support the reliability data needs of WECC members and as identified by the WECC OC,
* Develop and oversee methodologies to facilitate the exchange of real-time, modeling, and other operational data to help ensure reliable electric power system operations.
* Coordinate modeling activities and provide technical input on the implementation of reliability proposals and standards.

The DEMSWG is responsible for:

1. Supporting the development and maintenance of recommendations, guidelines and/or methodologies for EMS related applications and services identified by the Reliability Risk Committee (RRC), such as, but not limited to the following:
	1. Supervisory Control and Data Acquisition (SCADA)
	2. Automatic Generation Control (AGC)
	3. Network/Advanced Applications
		1. Contingency Analysis (CA or RTCA)
		2. State Estimation (SE)
		3. Load Flow (LF)
		4. Voltage Stability
		5. Transient Stability
		6. Mode Meter
		7. Oscillation detection
		8. Remedial Action Schemes (RAS)
	4. Dispatch Training Simulator (DTS)
	5. Historical Data Warehouses (PI, eDNA, etc.)
	6. Outage Management Systems
	7. Interfaces
		1. E-Tags
		2. Energy Scheduling and Accounting
		3. Western Interchange Tool (WIT)
2. Promoting model quality among members by enhancing the West-wide System Model and its widespread use.
3. Providing governance and technical oversight of the WECC Operations Network (WON), including:
	1. Connection criteria and connection approval;
	2. Exchange of Inter Control Center Communications Protocol (ICCP) data;
	3. Network policies and procedures; and
	4. Network analysis.
4. Advising WECC Reliability Coordinators on the governance, connection criteria, network policies and procedures and network analysis of the reliability data networks.
5. Providing governance and technical oversight of the Electric Industry Data Exchange (EIDE) Communications Protocol.
6. Overseeing technical enhancements and cost considerations of common use networks (WON, WISP, etc.).
7. Evaluating other data exchange protocols, procedures, and applications to recommend migration strategies.
8. Coordinating with the Cyber Security Work Group (CSWG) to showcase and promote best practices for security.
9. Evaluating evolving smart grid communication technologies as they relate to potential inter-utility connectivity.
10. Conducting and/or participating in training seminars to promote a better understanding of governed applications and their functions and capabilities.
11. Establishing and maintaining standards, design requirements, and procedures pertaining to the quality and timeliness of RC networks such as the WON.
12. Evaluating the availability and timeliness of data exchange and the quality of the data among RC network nodes and their data sources.
13. Establishing a system of unique naming for WECC ICCP object IDs.
14. Enhancing Situational Awareness by:
	1. Sharing control center best practices;
	2. Discussing and sharing operational displays and views in the control center; and
	3. Visiting member control centers to showcase designs and layouts.
15. Acting as a liaison forum between industry entities and the Reliability Coordinator function, providing efficient communications related to compliance issues, initiatives, and requirements.
16. Monitoring and assessing current and pending NERC Reliability Standards to determine their impacts and identify any best practices, tools, or processes to assist entities with their compliance obligations. These standards include, but are not limited to:
	1. Resource Demand Balancing (BAL);
	2. Critical Infrastructure Protection (CIP);
	3. Emergency Preparedness and Operations (EOP);
	4. Interconnection Reliability Operations and Coordination (IRO);
	5. Modeling, Data, and Analysis (MOD) and
	6. Transmission Operations (TOP).
17. Serving as technical subject matter experts (SME) for EMS and Data Exchange applications among participating WECC entities.
18. Updating and maintaining the TOP-003 data specification and associated data and documentation on the sites hosted by WECC Reliability Coordinators for the benefit of the Western Interconnection.
19. Communicating, contributing, and collaborating on industry projects and activities.
20. Performing other tasks as assigned by SASMS.

# Committee Composition and Governance

1. **Membership**
	1. The DEMSWG will be composed of members from WECC Member organizations that exchange reliability data.
	2. Members will be selected by their organization’s SASMS representative or by their organization’s WECC Member Representative if no SASMS representative exists.
		1. WECC Member organizations may have multiple members on the DEMSWG.
		2. Notice of selection should be sent to the chair (or designee).
	3. Members will serve until they resign or until a successor has been selected.
	4. The DEMSWG will also include a liaison, appointed by WECC management, as a member.
2. **Leadership**
	1. The chair of the SASMS will approve one of the DEMSWG members to serve as the chair.
		1. The chair will manage the committee and its meetings.
	2. The chair of the DEMSWG will appoint a DEMSWG member to serve as the vice chair for DEMSWG approval.
		1. The vice chair will perform the duties of the chair in the chair’s absence or in case of a vacancy in the office of chair.
	3. The chair and vice chair will each hold office for a term of two years, or until a successor has been duly appointed. The chair and vice chair may serve multiple terms.
	4. WECC staff will partner with the chair and vice chair to manage the committee and its meetings, plan the agenda, and coordinate efforts with the other technical committees to ensure alignment with WECC staff work plans and priorities.
	5. WECC staff will prepare minutes of DEMSWG meetings for the committee’s approval.
	6. The chair may appoint a steering committee, which will include the vice chair, WECC liaison, subgroup chairs, and may include other members, that will assist with meeting agendas and action recommendations.
3. **Meetings**
	1. The DEMSWG will meet as often as required to carry out its responsibilities.
		1. Meetings will be held according to the WECC Meeting Policy.
		2. DEMSWG meetings may be in-person, virtual, a combination of the two (hybrid), or by conference call, as determined by the chair.
		3. Meetings will be open to the public except as otherwise approved according to Board policy.
	2. A quorum for meetings will be a third of committee members.
	3. The DEMSWG will strive to make all decisions by consensus. If consensus is not possible, action taken by the DEMSWG will require a majority vote of the members present.
		1. Voting may be by any means the chair determines appropriate.
		2. Voting must take place in a noticed meeting.
		3. DEMSWG members may not vote by proxy or absentee ballot.
		4. Each WECC Member organization may only have one vote.
		5. Members who vote in the minority regarding an approval item should provide an explanation for their vote. This explanation or a summary will be included in the minutes.
	4. WECC will give notice to each member of the DEMSWG of the time and place of all meetings and will post notice of all meetings on the WECC website. Notice will be given no less than:
* 30 calendar days before in-person and hybrid meetings.
* 10 calendar days before virtual meetings and conference calls.
	1. An agenda and the items for which action may be taken, will be posted no less than:
* 10 calendar days before in-person and hybrid meetings.
* 10 calendar days before virtual meetings and conference calls.
	1. Any person who wants notice of DEMSWG meetings may notify the WECC liaison. WECC will then email the notice of future meetings to that person when the committee members receive the notice.
	2. The DEMSWG has been approved by the Board to hold closed sessions. Closed sessions must be held according to the procedures and requirements in the Board Policy on Closed and WIDSA Sessions. The DEMSWG closed sessions are approved to discuss: <<list the information approved>>.

# Reporting

The DEMSWG will report to the SASMS on its activities and any recommendations.

# Review and Changes to the Charter

The DEMSWG will review this charter every three years or as needed and [technical committees add “discuss any changes with the Joint Guidance Committee (JGC). The DEMSWG will then”] make a recommendation to the SASMS for approval.

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| --- | --- | --- |
|  | ****Committee**** | ****Date**** |
| **Approved** | SASMS | **Month Day, Year** |
| **Endorsed** | **[Board Committees delete this row]** JGC | **Month Day, Year** |
| **Reviewed** | DEMSWG | **Month Day, Year** |