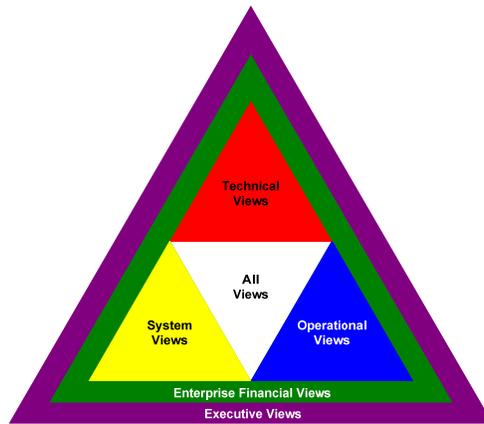




# **National Airspace System Enterprise Architecture (NAS EA)**

## **Air Traffic Organization**

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**NextGen Far-Term (2025)  
To-Be Enterprise-Level Architecture  
Operational Information Exchange Matrix (OV-3)  
Version 1.0  
January 29, 2010**

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## NextGen 2025 Operational Information Exchange Matrix OV-3

### *Overview*

This Operational Information Exchange Matrix (OV-3) is an adaptation of the standard version of the OV-3. Both versions show the exchange of operational information over needlines. However, where the standard version shows these exchanges as being between operational nodes and activities, this version shows the exchange of information between the major NextGen functions included in the preliminary System Interface Description (SV-1p). Therefore, the needlines shown in the matrix are actually functional interfaces. These interfaces are identified in the supplemental diagrams of the SV-1p.

A standard OV-3 would also present details of the information exchange, such as criticality, periodicity, security, etc. These attributes will be added to the current OV-3 as the product matures.

The matrix currently consists of five columns: Sending Function, Receiving Function, Information Name, Content Description, and Flow Category. A sixth column provides an item number for identifying each exchange. The Information Name identifies the type of information at a high level, with some details of the exchange given in the Content Description. The information given in the Content Description column are examples only, not definitions of the information type. It is intended that the exchange items would be decomposed into multiple exchanges as part of the program-level enterprise architecture activities so that the details associated with each exchange can be defined.

The Flow Category is included to correlate the information exchange items with the Information Flows that were used to decompose the data communications diagrams of the Systems Communications Description (SV-2). Those five flows consist of Aeronautical Information, Surveillance Information, Weather Information, Flight Data, and Command & Control Information. The flows are described in the SV-2.

**Matrix**

#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
1	3rd Party Providers Stakeholder Operations	Flight & State Data Management - National	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments	Flight Data
2	3rd Party Providers Stakeholder Operations	Long Term Capacity Management	Consumer Needs	Forecast consumer needs	Command & Control
3	Aeronautical Information Management	3rd Party Providers Stakeholder Operations	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; TMIs and restrictions; hazardous weather information	Aeronautical Information
4	Aeronautical Information Management	Aircraft Flight Management	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; TMIs and restrictions; hazardous weather information	Aeronautical Information
5	Aeronautical Information Management	Airlines Stakeholder Operations	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; TMIs and restrictions; hazardous weather information	Aeronautical Information
6	Aeronautical Information Management	Airport Stakeholder Operations	Aeronautical Information	Service structure and status; TMIs and restrictions; hazardous weather information	Aeronautical Information
7	Aeronautical Information Management	Flight & State Data Management - Local	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; TMIs and restrictions; hazardous weather information	Aeronautical Information
8	Aeronautical Information Management	Flight & State Data Management - National	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; TMIs and restrictions; hazardous weather information	Aeronautical Information
9	Aeronautical Information Management	Flight Operator Stakeholder Operations	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; TMIs and restrictions; hazardous weather information	Aeronautical Information
10	Aeronautical Information Management	Flow Contingency Management	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans and restrictions; hazardous weather information	Aeronautical Information
11	Aeronautical Information Management	International ATC Stakeholder Operations	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans, TMIs, and restrictions; hazardous weather information	Aeronautical Information
12	Aeronautical Information Management	Military Separation Management	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans, TMIs, and restrictions; hazardous weather information	Aeronautical Information
13	Aeronautical Information Management	Military Stakeholder Operations	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans, TMIs, and restrictions; hazardous weather information	Aeronautical Information
14	Aeronautical Information Management	Military Trajectory Management - Local	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans, TMIs, and restrictions; hazardous weather information	Aeronautical Information
15	Aeronautical Information Management	Other Government Agency Stakeholder Operations	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans, TMIs, and restrictions; hazardous weather information	Aeronautical Information
16	Aeronautical Information Management	Safety Management	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans, TMIs, and restrictions; hazardous weather information	Aeronautical Information

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
17	Aeronautical Information Management	Separation Management	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; TMIs and restrictions; hazardous weather information	Aeronautical Information
18	Aeronautical Information Management	Short Term Capacity Management	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans and restrictions; hazardous weather information	Aeronautical Information
19	Aeronautical Information Management	Surveillance Information Management - Local	Aeronautical Information	Airspace structure and geographical features	Aeronautical Information
20	Aeronautical Information Management	Surveillance Information Management - National	Aeronautical Information	Airspace structure and geographical features	Aeronautical Information
21	Aeronautical Information Management	System & Services Analysis	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans, TMIs, and restrictions; hazardous weather information (for recording and analysis)	Aeronautical Information
22	Aeronautical Information Management	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
23	Aeronautical Information Management	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
24	Aeronautical Information Management	Trajectory Management - Local	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans, TMIs, and restrictions; hazardous weather information	Aeronautical Information
25	Aeronautical Information Management	Trajectory Management - National	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans, TMIs, and restrictions; hazardous weather information	Aeronautical Information
26	Aeronautical Information Management	Weather Information Management - Local	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans, TMIs, and restrictions	Aeronautical Information
27	Aeronautical Information Management	Weather Information Management - National	Aeronautical Information	Airspace structure and status; geographic structure and status; service structure and status; flow management plans, TMIs, and restrictions	Aeronautical Information
28	Aircraft ADS Processing	Surveillance Data Collection	Raw Surveillance Information	Current 3-D position and velocity reports	Surveillance
29	Aircraft Flight Management	Aeronautical Information Management	NOTAM Inputs	General reports from consumers appropriate for dissemination as a NOTAM	Aeronautical Information
30	Aircraft Flight Management	Flight & State Data Management - Local	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments	Flight Data
31	Aircraft Flight Management	Separation Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
32	Aircraft Flight Management	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
33	Aircraft Flight Management	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
34	Aircraft Flight Management	Trajectory Management - Local	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
35	Aircraft Flight Management	Trajectory Management - National	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
36	Aircraft Flight Management	Weather Information Management - National	PIREPS	Airborne weather observations provided by consumers	Weather
37	Aircraft Transponder Function	Surveillance Data Collection	Raw Surveillance Information	Altitude and other coded information (position information is derived from the characteristics of the signal)	Surveillance

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
38	Aircraft Weather Sensing	Weather Data Collection	Current Weather Parameters	Raw weather data from aircraft sensors	Weather
39	Airlines Stakeholder Operations	Aeronautical Information Management	NOTAM Inputs	General reports from consumers appropriate for dissemination as a NOTAM	Aeronautical Information
40	Airlines Stakeholder Operations	Flight & State Data Management - National	Flight Information	Initial data filing of FP by airlines (FOC) and subsequent amendments and trajectories supporting the flight's mission need - includes aircraft characteristics	Flight Data
41	Airlines Stakeholder Operations	Flow Contingency Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
42	Airlines Stakeholder Operations	Long Term Capacity Management	Consumer Needs	Forecast consumer needs	Command & Control
43	Airlines Stakeholder Operations	Short Term Capacity Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
44	Airlines Stakeholder Operations	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
45	Airlines Stakeholder Operations	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
46	Airlines Stakeholder Operations	Trajectory Management - Local	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
47	Airlines Stakeholder Operations	Trajectory Management - National	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
48	Airport Stakeholder Operations	Aeronautical Information Management	Airport Status	Closures, active runways, construction, etc.	Aeronautical Information
49	Airport Stakeholder Operations	Flow Contingency Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
50	Airport Stakeholder Operations	Long Term Capacity Management	Aeronautical Information	Airport mapping data	Aeronautical Information
51	Airport Stakeholder Operations	Long Term Capacity Management	Consumer Needs	Forecast consumer needs	Command & Control
53	Airport Stakeholder Operations	Short Term Capacity Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
54	Airport Stakeholder Operations	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
55	Airport Stakeholder Operations	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
56	Airport Stakeholder Operations	Trajectory Management - Local	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
57	Airport Stakeholder Operations	Trajectory Management - National	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
58	Flight & State Data Management - Local	Aircraft Flight Management	Flight Information	Results of impact analysis of aircraft flight plans, amendments, and trajectories	Flight Data
59	Flight & State Data Management - Local	Flight & State Data Management - National	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments	Flight Data
60	Flight & State Data Management - Local	Flight Operator Stakeholder Operations	Flight Information	Results of impact analysis of aircraft flight plans, amendments, and trajectories	Flight Data
61	Flight & State Data Management - Local	System & Services Analysis	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances (for recording and analysis)	Flight Data
62	Flight & State Data Management - Local	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
63	Flight & State Data Management - Local	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
64	Flight & State Data Management - National	3rd Party Providers Stakeholder Operations	Flight Information	Results of impact analysis of aircraft flight plans, amendments, and trajectories	Flight Data
65	Flight & State Data Management - National	Airlines Stakeholder Operations	Flight Information	Results of impact analysis of aircraft flight plans, amendments, and trajectories	Flight Data
66	Flight & State Data Management - National	Airport Stakeholder Operations	Flight Information	Flight plans, 4-D trajectories, and amendments; projected arrival times; delivery status of clearances	Flight Data
67	Flight & State Data Management - National	Flight & State Data Management - Local	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances	Flight Data
68	Flight & State Data Management - National	Flight Operator Stakeholder Operations	Flight Information	Results of impact analysis of aircraft flight plans, amendments, and trajectories	Flight Data
69	Flight & State Data Management - National	Flow Contingency Management	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances	Flight Data
70	Flight & State Data Management - National	International ATC Stakeholder Operations	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances	Flight Data
71	Flight & State Data Management - National	Military Separation Management	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances	Flight Data
72	Flight & State Data Management - National	Military Stakeholder Operations	Flight Information	Results of impact analysis of aircraft flight plans, amendments, and trajectories	Flight Data
73	Flight & State Data Management - National	Military Trajectory Management - Local	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances	Flight Data
74	Flight & State Data Management - National	Safety Management	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances	Flight Data
75	Flight & State Data Management - National	Separation Management	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances	Flight Data
76	Flight & State Data Management - National	Short Term Capacity Management	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances	Flight Data
77	Flight & State Data Management - National	Surveillance Information Management - Local	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments	Flight Data
78	Flight & State Data Management - National	System & Services Analysis	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances (for recording and analysis)	Flight Data
79	Flight & State Data Management - National	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
80	Flight & State Data Management - National	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
81	Flight & State Data Management - National	Trajectory Management - Local	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances	Flight Data
82	Flight & State Data Management - National	Trajectory Management - National	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, and amendments; delivery status of clearances	Flight Data
83	Flight Operator Stakeholder Operations	Aeronautical Information Management	NOTAM Inputs	General reports from consumers appropriate for dissemination as a NOTAM	Aeronautical Information
85	Flight Operator Stakeholder Operations	Flight & State Data Management - Local	Flight Information	Proposed flight plans and 4-D trajectories	Flight Data
86	Flight Operator Stakeholder Operations	Flight & State Data Management - National	Flight Information	Proposed flight plans and 4-D trajectories	Flight Data
87	Flight Operator Stakeholder Operations	Flow Contingency Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
88	Flight Operator Stakeholder Operations	Long Term Capacity Management	Consumer Needs	Forecast consumer needs	Command & Control
90	Flight Operator Stakeholder Operations	Short Term Capacity Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
91	Flight Operator Stakeholder Operations	Trajectory Management - Local	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
92	Flight Operator Stakeholder Operations	Trajectory Management - National	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
93	Flow Contingency Management	Aeronautical Information Management	Flow Management Decisions	Traffic management initiatives and restrictions	Aeronautical Information
94	Flow Contingency Management	Airlines Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
95	Flow Contingency Management	Airport Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
96	Flow Contingency Management	Flight Operator Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
97	Flow Contingency Management	International ATC Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
98	Flow Contingency Management	Military Stakeholder Operations	Flow Management Decisions	Responses to new urgent restrictions	Command & Control
99	Flow Contingency Management	Other Government Agency Stakeholder Operations	Flow Management Decisions	Responses to new urgent restrictions	Command & Control
100	Flow Contingency Management	Safety Management	Flow Information	Proposed flow contingency plans	Command & Control
101	Flow Contingency Management	Short Term Capacity Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
102	Flow Contingency Management	System & Services Analysis	Flow Management Decisions	Traffic management initiatives and restrictions (for recording and analysis)	Command & Control
103	Flow Contingency Management	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
104	Flow Contingency Management	System & Services Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
105	Flow Contingency Management	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
106	Flow Contingency Management	Trajectory Management - National	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
107	International ATC Stakeholder Operations	Aeronautical Information Management	Aeronautical Information	International airspace structure and configuration; geographic structure and configuration; service structure and configuration	Aeronautical Information
108	International ATC Stakeholder Operations	Flight & State Data Management - National	Flight Information	Aircraft characteristics, flight plans, 4-D trajectories, amendments, and clearance delivery status from international ATC	Flight Data
109	International ATC Stakeholder Operations	Flow Contingency Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
110	International ATC Stakeholder Operations	Long Term Capacity Management	Consumer Needs	Forecast consumer needs	Command & Control
112	International ATC Stakeholder Operations	Short Term Capacity Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
113	International ATC Stakeholder Operations	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
114	International ATC Stakeholder Operations	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
116	International ATC Stakeholder Operations	Trajectory Management - Local	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
117	International ATC Stakeholder Operations	Trajectory Management - National	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
118	Long Term Capacity Management	Aeronautical Information Management	Aeronautical Information	Airspace structure; geographic structure; service structure	Aeronautical Information
119	Long Term Capacity Management	System & Services Analysis	Proposed System Changes	Proposed airspace design changes, procedures, etc. for analysis purposes	Command & Control
121	Military Separation Management	Flight & State Data Management - National	Control Information	Separation management directives to consumers, and delivery status	Flight Data
122	Military Separation Management	Safety Management	Control Information	Separation management directives to consumers, and delivery status	Command & Control
123	Military Separation Management	Separation Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
124	Military Separation Management	System & Services Analysis	Control Information	Separation management directives to consumers (for recording and analysis)	Command & Control
125	Military Separation Management	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
126	Military Separation Management	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
127	Military Stakeholder Operations	Aeronautical Information Management	Airspace Restrictions	Approved activation and deactivation schedule for special use airspace	Aeronautical Information
128	Military Stakeholder Operations	Aeronautical Information Management	NOTAM Inputs	General reports from consumers appropriate for dissemination as a NOTAM	Aeronautical Information
129	Military Stakeholder Operations	Flight & State Data Management - National	Flight Information	Proposed flight plans and 4-D trajectories	Flight Data
130	Military Stakeholder Operations	Flow Contingency Management	Airspace Restrictions	Stakeholder restrictions; SUA scheduling requests; restrictions related to airspace hazards	Command & Control
131	Military Stakeholder Operations	Long Term Capacity Management	Aeronautical Information	Airspace definitions	Aeronautical Information
132	Military Stakeholder Operations	Long Term Capacity Management	Consumer Needs	Forecast consumer needs	Command & Control
134	Military Stakeholder Operations	Short Term Capacity Management	Airspace Restrictions	Stakeholder restrictions; SUA scheduling requests; restrictions related to airspace hazards	Command & Control
135	Military Stakeholder Operations	Trajectory Management - Local	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
136	Military Stakeholder Operations	Trajectory Management - National	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
140	Military Trajectory Management - Local	Flight & State Data Management - National	Control Information	Trajectory management directives to consumers, and delivery status	Flight Data
145	Military Trajectory Management - Local	System & Services Analysis	Control Information	Trajectory management directives to consumers (for recording and analysis)	Command & Control
146	Military Trajectory Management - Local	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
147	Military Trajectory Management - Local	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
148	Military Trajectory Management - Local	Trajectory Management - National	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
149	Navigation Support	Aircraft Navigation Processing	Correction Information	Satellite navigation correction data	Aeronautical Information
150	Navigation Support	Aircraft Navigation Processing	Navigation Information	Positional information derived from interaction with terrestrial navigation system	Aeronautical Information
151	Navigation Support	System & Services Analysis	Correction Information	Satellite navigation correction data (for recording and analysis)	Aeronautical Information
152	Navigation Support	System & Services Management	Correction Information	Satellite navigation correction data	Aeronautical Information
153	NWS Stakeholder Operations	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
154	NWS Stakeholder Operations	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
155	NWS Stakeholder Operations	Weather Information Management - Local	Weather Information	Current and projected weather conditions; collaboration	Weather
156	NWS Stakeholder Operations	Weather Information Management - National	Weather Information	Current and projected weather conditions; collaboration	Weather
157	Other Government Agency Stakeholder Operations	Aeronautical Information Management	NOTAM Inputs	General reports from consumers appropriate for dissemination as a NOTAM	Aeronautical Information
158	Other Government Agency Stakeholder Operations	Flow Contingency Management	Airspace Restrictions	Restrictions imposed in response to credible security threats, or required for security operations	Command & Control
159	Other Government Agency Stakeholder Operations	Long Term Capacity Management	Consumer Needs	Forecast consumer needs	Command & Control
161	Other Government Agency Stakeholder Operations	Short Term Capacity Management	Airspace Restrictions	Restrictions imposed in response to credible security threats, or required for security operations	Command & Control
162	Other Government Agency Stakeholder Operations	Trajectory Management - Local	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
163	Other Government Agency Stakeholder Operations	Trajectory Management - National	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
164	Remote System & Services Management	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
165	Remote System & Services Management	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
166	Safety Management	Flow Contingency Management	Safety Issues	Safety issues affecting flow management	Command & Control
167	Safety Management	Short Term Capacity Management	Safety Issues	Safety issues affecting capacity management	Command & Control
168	Safety Management	System & Services Analysis	Safety Data	Safety issues and actions for recording (for recording and analysis)	Command & Control
169	Safety Management	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
170	Safety Management	System & Services Management	Safety Issues	Safety issues affecting maintenance	Command & Control
171	Safety Management	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
172	Satellite Navigation Service	Navigation Support	Navigation Information	Positional information derived from interaction with satellite navigation system	Aeronautical Information

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
173	Satellite Weather Service	Weather Data Collection	Current Weather Parameters	Raw weather data from weather satellite	Weather
174	Separation Management	Aircraft Flight Management	Control Decisions	Separation management directives to consumers	Command & Control
175	Separation Management	Flight & State Data Management - National	Control Information	Separation management directives to consumers, and delivery status	Flight Data
176	Separation Management	Safety Management	Control Information	Separation management directives to consumers, and delivery status	Command & Control
177	Separation Management	System & Services Analysis	Control Information	Separation management directives to consumers (for recording and analysis)	Command & Control
178	Separation Management	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
179	Separation Management	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
180	Short Term Capacity Management	Aeronautical Information Management	Flow Management Decisions	Capacity management plans and restrictions.	Aeronautical Information
181	Short Term Capacity Management	Airlines Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
182	Short Term Capacity Management	Airport Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
183	Short Term Capacity Management	Flight Operator Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
184	Short Term Capacity Management	Flow Contingency Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
185	Short Term Capacity Management	International ATC Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
186	Short Term Capacity Management	Military Stakeholder Operations	Airspace Status	SUA scheduling and negotiations	Command & Control
187	Short Term Capacity Management	Other Government Agency Stakeholder Operations	Flow Management Decisions	Responses to new urgent restrictions	Command & Control
188	Short Term Capacity Management	Safety Management	Flow Information	Proposed capacity management plans	Command & Control
189	Short Term Capacity Management	System & Services Analysis	Flow Management Decisions	Capacity management plans and restrictions (for recording and analysis)	Command & Control
190	Short Term Capacity Management	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
191	Short Term Capacity Management	System & Services Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
192	Short Term Capacity Management	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
193	Surveillance Data Collection	Military Stakeholder Operations	Raw Surveillance Information	Surveillance data from dependent, independent, and cooperative surveillance systems	Surveillance
194	Surveillance Data Collection	Surveillance Information Management - Local	Raw Surveillance Information	Surveillance data from dependent, independent, and cooperative surveillance systems	Surveillance
195	Surveillance Data Collection	System & Services Analysis	Raw Surveillance Information	Surveillance data from dependent, independent, and cooperative surveillance systems (for recording and analysis)	Surveillance
196	Surveillance Information Management - Local	Aircraft Flight Management	Processed Surveillance Information	Published aircraft track data	Surveillance

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
197	Surveillance Information Management - Local	Military Separation Management	Processed Surveillance Information	Integrated local surveillance presentation	Surveillance
198	Surveillance Information Management - Local	Separation Management	Processed Surveillance Information	Integrated local surveillance presentation	Surveillance
199	Surveillance Information Management - Local	Surveillance Information Management - National	Processed Surveillance Information	Integrated local surveillance presentation	Surveillance
200	Surveillance Information Management - Local	System & Services Analysis	Processed Surveillance Information	Integrated local surveillance presentation (for recording and analysis)	Surveillance
201	Surveillance Information Management - Local	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
202	Surveillance Information Management - Local	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
203	Surveillance Information Management - National	3rd Party Providers Stakeholder Operations	Processed Surveillance Information	Integrated surveillance presentation	Surveillance
204	Surveillance Information Management - National	Airlines Stakeholder Operations	Processed Surveillance Information	Integrated surveillance presentation	Surveillance
205	Surveillance Information Management - National	Airport Stakeholder Operations	Processed Surveillance Information	Integrated surveillance presentation	Surveillance
206	Surveillance Information Management - National	Flight & State Data Management - National	Processed Surveillance Information	Aircraft current position and velocity; aircraft track history.	Surveillance
207	Surveillance Information Management - National	Flight Operator Stakeholder Operations	Processed Surveillance Information	Integrated surveillance presentation	Surveillance
208	Surveillance Information Management - National	Flow Contingency Management	Processed Surveillance Information	Integrated surveillance presentation	Surveillance
209	Surveillance Information Management - National	International ATC Stakeholder Operations	Processed Surveillance Information	Integrated surveillance presentation	Surveillance
210	Surveillance Information Management - National	Military Stakeholder Operations	Processed Surveillance Information	Integrated surveillance presentation	Surveillance
211	Surveillance Information Management - National	Military Trajectory Management - Local	Processed Surveillance Information	Integrated surveillance presentation	Surveillance
212	Surveillance Information Management - National	Other Government Agency Stakeholder Operations	Processed Surveillance Information	Integrated surveillance presentation	Surveillance
213	Surveillance Information Management - National	Safety Management	Processed Surveillance Information	Integrated surveillance presentation	Surveillance
214	Surveillance Information Management - National	System & Services Analysis	Processed Surveillance Information	Integrated surveillance presentation (for recording and analysis)	Surveillance
215	Surveillance Information Management - National	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
216	Surveillance Information Management - National	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
217	Surveillance Information Management - National	Trajectory Management - Local	Processed Surveillance Information	Integrated local surveillance presentation	Surveillance
218	Surveillance Information Management - National	Trajectory Management - National	Processed Surveillance Information	Integrated national surveillance presentation	Surveillance
219	System & Services Analysis	Long Term Capacity Management	Analysis Data	Recorded data and analysis results	Command & Control
220	System & Services Analysis	Military Stakeholder Operations	Recorded Data & Voice	Recorded flight and surveillance data; recorded voice (for intruder investigation)	Command & Control

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
221	System & Services Analysis	Other Government Agency Stakeholder Operations	Analysis Data	Analysis results (for accident investigation)	Command & Control
222	System & Services Analysis	Other Government Agency Stakeholder Operations	Recorded Data & Voice	Recorded flight and surveillance data; recorded voice (for accident, security, and criminal investigations)	Command & Control
223	System & Services Analysis	Safety Management	Analysis Data	Recorded data and analysis results	Command & Control
224	System & Services Analysis	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
225	System & Services Management	Aeronautical Information Management	Service Status	Availability and quality of air navigation services based on planned preventative maintenance, system outages, system performance degradation, etc.	Aeronautical Information
226	System & Services Management	Flow Contingency Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
227	System & Services Management	Remote System & Services Management	Maintenance Commands	Commands for running diagnostics, performing measurements, and performing parametric adjustments	Command & Control
228	System & Services Management	Safety Management	Service Status	Availability and quality of air navigation services based on planned preventative maintenance, system outages, system performance degradation, etc.	Aeronautical Information
229	System & Services Management	Short Term Capacity Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
230	System & Services Management	System & Services Analysis	Service Status	Availability and quality of air navigation services based on planned preventative maintenance, system outages, system performance degradation, etc. (for recording and analysis)	Aeronautical Information
231	Trajectory Management - Local	Aircraft Flight Management	Control Decisions	Proposed trajectories and trajectory management directives to consumers	Command & Control
232	Trajectory Management - Local	Airlines Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
233	Trajectory Management - Local	Airport Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
234	Trajectory Management - Local	Flight & State Data Management - National	Control Information	Trajectory management directives to consumers, and delivery status	Flight Data
235	Trajectory Management - Local	Flight Operator Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
236	Trajectory Management - Local	International ATC Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
237	Trajectory Management - Local	Military Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
238	Trajectory Management - Local	Other Government Agency Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
239	Trajectory Management - Local	System & Services Analysis	Control Information	Trajectory management directives to consumers (for recording and analysis)	Command & Control
240	Trajectory Management - Local	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
241	Trajectory Management - Local	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
242	Trajectory Management - Local	Trajectory Management - National	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
243	Trajectory Management - National	Aircraft Flight Management	Control Decisions	Proposed trajectories and trajectory management directives to consumers	Command & Control

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
244	Trajectory Management - National	Airlines Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
245	Trajectory Management - National	Airport Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
246	Trajectory Management - National	Flight & State Data Management - National	Control Information	Trajectory management directives to consumers, and delivery status	Flight Data
247	Trajectory Management - National	Flight Operator Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
248	Trajectory Management - National	Flow Contingency Management	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
249	Trajectory Management - National	International ATC Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
250	Trajectory Management - National	Military Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
251	Trajectory Management - National	Military Trajectory Management - Local	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
252	Trajectory Management - National	Other Government Agency Stakeholder Operations	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
253	Trajectory Management - National	System & Services Analysis	Control Information	Trajectory management directives to consumers (for recording and analysis)	Command & Control
254	Trajectory Management - National	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
255	Trajectory Management - National	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
256	Trajectory Management - National	Trajectory Management - Local	Collaboration Support Information	Any information provided as part of an operational activity involving collaboration.	Command & Control
257	Weather Data Collection	System & Services Analysis	Current Weather Parameters	Raw weather data (for recording and analysis)	Weather
258	Weather Data Collection	Weather Information Management - Local	Current Weather Parameters	Surface and airborne observations; weather data collected from NWS, and contractors; weather radar data; satellite weather data	Weather
259	Weather Information Management - Local	Military Separation Management	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
260	Weather Information Management - Local	NWS Stakeholder Operations	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
261	Weather Information Management - Local	Separation Management	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
262	Weather Information Management - Local	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
263	Weather Information Management - Local	System & Services Analysis	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products (for recording and analysis)	Weather
264	Weather Information Management - Local	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
265	Weather Information Management - Local	Weather Information Management - National	Weather Information	Integrated local weather presentation	Weather

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
266	Weather Information Management - National	3rd Party Providers Stakeholder Operations	Weather Information	Integrated national weather presentation	Weather
267	Weather Information Management - National	Aeronautical Information Management	Weather Information	Current and forecast weather conditions including hazardous advisories	Weather
268	Weather Information Management - National	Aircraft Flight Management	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
269	Weather Information Management - National	Airlines Stakeholder Operations	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
270	Weather Information Management - National	Airport Stakeholder Operations	Weather Information	Current and forecast weather conditions including hazardous advisories, shared weather situation	Weather
271	Weather Information Management - National	Flight & State Data Management - Local	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
272	Weather Information Management - National	Flight & State Data Management - National	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
273	Weather Information Management - National	Flight Operator Stakeholder Operations	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
274	Weather Information Management - National	Flow Contingency Management	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
275	Weather Information Management - National	International ATC Stakeholder Operations	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
276	Weather Information Management - National	Military Stakeholder Operations	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
277	Weather Information Management - National	Military Trajectory Management - Local	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
278	Weather Information Management - National	NWS Stakeholder Operations	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
279	Weather Information Management - National	Other Government Agency Stakeholder Operations	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
280	Weather Information Management - National	Safety Management	Weather Information	Integrated national weather presentation	Weather
281	Weather Information Management - National	Short Term Capacity Management	Climatology Information	Seasonal meteorological trends and patterns	Weather
282	Weather Information Management - National	Short Term Capacity Management	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
283	Weather Information Management - National	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control

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#	Sending Function	Receiving Function	Information Name	Content Description	Flow Category
284	Weather Information Management - National	System & Services Analysis	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products (for recording and analysis)	Weather
285	Weather Information Management - National	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
286	Weather Information Management - National	Trajectory Management - Local	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
287	Weather Information Management - National	Trajectory Management - National	Weather Information	Current and forecast weather conditions including hazardous advisories, DST meteorological data, shared weather situation, trajectory-based products	Weather
288	Weather Information Management - National	Weather Information Management - Local	Weather Information	Integrated national weather presentation	Weather
289	Weather Vendor Stakeholder Operations	System & Services Analysis	System Status	Faults, deviations from tolerances, failures, etc. (for recording and analysis)	Command & Control
290	Weather Vendor Stakeholder Operations	System & Services Management	System Status	Faults, deviations from tolerances, failures, etc.	Command & Control
291	Weather Vendor Stakeholder Operations	Weather Information Management - National	Weather Information	Raw weather from commercial sources	Weather