

										text/language, or 300 characters if single language. Begins with "p" if "Expected" where EAS is the code. The p is the Automation Priority number. This is to enable alert fatigue reduction. Data SHALL be recorded in YYYY-MM-DD format. HH:MM:SS/YYYY and YYYY:MM:SS are optional displayed and entering formats which are unacceptable. YYYY text is a lower easter display, and PVA is to be reserved for Islamic and Jewish format where A is a letter in the alphabet.										characters or 2 minutes total Description (1500 char, 200 words may be followed by "AWARN" type = "text") Instructions Portuguese (1500 char, 200 words may be followed by "AWARN" type = "text") Content for starting here ->element																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Q&ES Event Term	Q	DET Name	Category	CAP Category	NAUTEX message type, see notes	NOTES	EAS EEE code	CAP software label	Urgency: Immediate Expected Future Minor Possible Unlikely Unknown	Severity: Extreme Severe Moderate Minor Possible Unlikely Unknown	Certainty: Confirmed Likely Possible Unlikely Unknown	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220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DET-075	Z	environment hazardous materials	hazardous materials
DET-076		explosion threat	child issue
DET-077		falling object(s)	safety hazard
DET-078	A2	fire condition satisfactory	fire
DET-079	A4	fire risk high (red flag)	fire
DET-078	A5	fire condition low	fire
DET-078	A6	fire condition medium	fire
DET-078	A7	fire condition high; fire ban	fire
DET-078	A8	fire condition very high fire ban	fire
DET-078	A9	extreme fire danger; total fire ban	fire
DET-078	N1	fire level 1	fire
DET-078	N2	fire level 2	fire
DET-078	N3	fire level 3	fire
DET-078	N4	fire level 4	fire

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Q05-120	D	law enforcement	child issue
Q05-120	L	law enforcement	child issue
Q05-121		Severe break	Road
Q05-122		lightning	severe weather, thunderstorm
Q05-123		limited visibility	air hazard
Q05-124		low tide	marine
Q05-125		low water	utility issue, marine

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id	category	sub-category	hazard	location	status	severity	likelihood	mitigation	impact	residual	notes
DET-147	practice	testing & system activity	Other	F	DMD	ph0rmo	Immediate	Moderate	Observed		
DET-148	product safety	safety hazard	Safety		PSS	product	Expected	Moderate	Observed		
DET-149	public facility	infrastructure issue	Infrastructure		PSF	facility	Immediate	Severe	Observed		
DET-150	public health	health issue	Health		PHW	hQuarantine	Immediate	Severe	Observed		
DET-151	public service issue	infrastructure issue	Infrastructure		PSA	publicService	Immediate	Severe	Observed		
DET-152	public transit issue	infrastructure issue	Transport		PTR	transit	Immediate	Severe	Observed		
DET-153	pyroclastic flow	volcano hazard	Geophysical	F	VPW	pyroclasticf	Immediate	Extreme	Observed		
DET-154	radiological fire	fire	CBSNE, fire		RHF	radiologicalfir	Immediate	Severe	Observed		
DET-155	radio transmitter	safety hazard	Infrastructure	F	RTW	radioW	Immediate	Severe	Observed		
DET-156	O	radioactive material release	radiological hazard	CBSNE	F		Immediate	Extreme	Observed		
DET-156	I	reflexion	radiological hazard	CBSNE			Immediate	Severe	Observed		
DET-156	P	reflectivity statement	radiological hazard	CBSNE			Past	Moderate	Likely		
DET-158	O	railway issue	infrastructure issue	Transport	RWI	railWincident	Immediate	Severe	Observed		
DET-158	X	railway train accident	infrastructure issue	Transport	RWA	train	Immediate	Extreme	Observed		
DET-159	T	rain <30mm/12h	weather	Meteorological	E	rainO	Expected	Moderate	Likely		

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Magnetic Field Calculator for Coils and Solenoids

Must accurate online magnetic field calculator on the Internet

This calculator uses advanced techniques to calculate magnetic field for solenoids and coils. It is the most computationally and accurate calculator available. In addition, magnetic field, coil self-inductance, resistance, power dissipation, resistance, and turn count. These important design information are useful for designing AC magnetic coil and solenoid, especially at high frequency.

Last updated on: January 19 2019

Today's date is:

Max Coil ID: 0.01 0.1 1 10 100 1000 (Default Standard Unit)

Coil Input Parameters

Coil Inner Radius (mm):	<input type="text" value="0.010000"/>	Note 1
Coil Length (mm):	<input type="text" value="10.0000"/>	Note 2
Copper Wire Diameter (mm):	<input type="text" value="0.010000"/>	Note 3
Coil Turns (Number of Turns):	<input type="text" value="10000"/>	Note 4
Coil Current (A):	<input type="text" value="1.000000"/>	Note 5
Frequency (MHz):	<input type="text" value="0.000000"/>	Note 6
Coil Relative Permeability: μ_r :	<input type="text" value="1.000000"/>	Note 7
Working Coefficient: k :	<input type="text" value="0.999999"/>	Note 8

Click here to calculate

Basic Calculation Output Parameters

Magnetic Field (mT):	<input type="text" value="1.256637"/>	Note 9
Coil Resistance (m Ω):	<input type="text" value="0.000000"/>	Note 10
Coil Inductance (nH):	<input type="text" value="0.000000"/>	Note 11
Self-inductance (nH):	<input type="text" value="0.000000"/>	Note 12
Total Inductance (nH):	<input type="text" value="0.000000"/>	Note 13

Advanced Calculation Output Parameters

Maximum DC Design Voltage (V):	<input type="text" value="0.000000"/>	Note 14
Resonant Capacitive Capacitance (pF):	<input type="text" value="0.000000"/>	Note 15
AC Power Dissipation (W):	<input type="text" value="0.000000"/>	Note 16
DC Power Dissipation (W):	<input type="text" value="0.000000"/>	Note 17

Table 1: Wire gauge diameter with resistance (when copper) in mm.

Table 2: Gauge diameter without insulation (when copper) in mm.

Figure 1: Cross-section view of the magnetic coil showing inner, coil length and radius.

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DET-433	DET-063	zoonotic disease	health issue	Health	EBV	Jaume?	SE Exacerbated	SE Severe	SE Likely	5	
DET-434	DET-061	contagious disease	health hazard	Health	EPV	EPV	SE Exacerbated	SE Severe	SE Likely	3	
DET-435	DET-063	contagious disease	health hazard	Health	ANZ	anthrax?	SE Exacerbated	SE Extreme	SE Likely	4	
DET-436	DET-063	contagious disease	health hazard	Health	ASB	Jaume?	SE Exacerbated	SE Severe	SE Likely	4	
DET-437	DET-083	disease communicable	health issue	Health	BVC	Jaume?	SE Exacerbated	SE Severe	SE Likely	6	
DET-438	DET-01	disease communicable	health issue	Health	WBC	Jaume?	SE Exacerbated	SE Severe	SE Likely	6	
DET-439	DET-01	disease communicable	health issue	Health	FEC	Jaume?	SE Exacerbated	SE Severe	SE Likely	6	
DET-440	DET-046	contagious disease	health hazard	Health	SDX	Jaume?	SE Exacerbated	SE Severe	SE Likely	4	
DET-441	DET-01	disease communicable	health issue	Health	NVC	Jaume?	SE Exacerbated	SE Severe	SE Likely	6	
DET-442	DET-063	zoonotic disease	health issue	Health	VPE	Jaume?	SE Exacerbated	SE Severe	SE Likely	5	
DET-443	DET-061	zoonotic disease	health issue	Health	UDT	Jaume?	SE Exacerbated	SE Severe	SE Likely	4	
DET-444	DET-046	contagious disease	health hazard	Health	VDS	Jaume?	SE Exacerbated	SE Severe	SE Likely	4	
DET-445	DET-063	zoonotic disease	health issue	Health	ABZ	Jaume?	SE Exacerbated	SE Severe	SE Likely	5	

For the Jaume? scenario or intervention disease you should immediately **[Recommended actions and extended instructions]**. The warning remains in effect until further notice. This message will be updated in **[Message Channel]**, or sooner if needed. For more information, check **[JaumeOfficial_Web_Site]**, or tune to local news media. Please call **[E, L, U]** only for a serious emergency.

For the Respiratory Syncytial Virus contagious disease you should expect to **[Recommended actions and extended instructions]**. A vaccine is available. The warning remains in effect until further notice. This message will be updated in **[Message Channel]**, or sooner if needed. For more information, check **[JaumeOfficial_Web_Site]**, or tune to local news media. Please call **[E, L, U]** for a serious emergency. The use of masks and other personal protective equipment may be advised. For advice, the contagion disease you should expect to **[Recommended actions and extended instructions]**. The warning remains in effect until further notice. This message will be updated in **[Message Channel]**, or sooner if needed. For more information, check **[JaumeOfficial_Web_Site]**, or tune to local news media. Please call **[E, L, U]** for a serious emergency. The use of masks and other personal protective equipment may be advised.

[Incident, Time] Jaume? Moderate communicable disease observed in **[State, Area, City]** **[Country]** **[State]**. **[Recommended Action]** expected until **[When]** **[When]** **[City]**. The use of masks and other personal protective equipment may be advised. **[JaumeOfficial_Web_Site]** **[Incident, Time]** Jaume? Moderate

[Incident, Time] Jaume? Moderate communicable disease observed in **[State, Area, City]** **[Country]** **[State]**. **[Recommended Action]** expected until **[When]** **[When]** **[City]**. The use of masks and other personal protective equipment may be advised. For the Jaume? contagious disease you should expect to **[Recommended actions and extended instructions]**. The warning remains in effect until further notice. This message will be updated in **[Message Channel]**, or sooner if needed. For more information, check **[JaumeOfficial_Web_Site]**, or tune to local news media. Please call **[E, L, U]** for a serious emergency. The use of masks and other personal protective equipment may be advised.

[Incident, Time] Jaume? Moderate communicable disease observed in **[State, Area, City]** **[Country]** **[State]**. **[Recommended Action]** expected until **[When]** **[When]** **[City]**. The use of masks and other personal protective equipment may be advised.

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For the Jaume? scenario or intervention disease you should immediately **[Recommended actions and extended instructions]**. The warning remains in effect until further notice. This message will be updated in **[Message Channel]**, or sooner if needed. For more information, check **[JaumeOfficial_Web_Site]**, or tune to local news media. Please call **[E, L, U]** only for a serious emergency.

For the Respiratory Syncytial Virus contagious disease you should expect to **[Recommended actions and extended instructions]**. A vaccine is available. The warning remains in effect until further notice. This message will be updated in **[Message Channel]**, or sooner if needed. For more information, check **[JaumeOfficial_Web_Site]**, or tune to local news media. Please call **[E, L, U]** for a serious emergency. The use of masks and other personal protective equipment may be advised. For advice, the contagion disease you should expect to **[Recommended actions and extended instructions]**. The warning remains in effect until further notice. This message will be updated in **[Message Channel]**, or sooner if needed. For more information, check **[JaumeOfficial_Web_Site]**, or tune to local news media. Please call **[E, L, U]** for a serious emergency. The use of masks and other personal protective equipment may be advised.

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Reasons for Automation Priority Value.

1) With Digital Audio Broadcast (DAB), a Scrambled radio message is received as a binary message. This means that a sequence of bits with prioritization will be received in the order of their digital broadcast.

2) As detailed below, there needs to be a fix for CDR or CDR+ message processing to be compatible with the program planning algorithm version. This would be fixed in the Event Server.

3) It is public world like to be able to have some control over the message being receiving. This is a message control control. 1 to 8 with 8 being option like, like School Closing which are long the Automation Priority Value 1 to 10 is equivalent to 10 is a volume control code. In the most important 1, with 8 and 10 being level being. This is important for interaction between Encoder/Decoder and an Automation system as well as most radio stations. There is not available. Consumer message 100 is to provide some of the "Alerting Level Control".

12) For best implementation, EAS encoder/decoder SHOULD be implemented via standard protocols such as VOPC Automation Priority Value 1 SHALL be immediately transmitted, Priority 2 and 1 within 8 minutes, Priority 4 and 5 within 10 minutes, Priority 6 and 7 within 24 minutes and all others within 30 minutes. If the traffic does not permit this, then SDARS and DES nationwide systems SHALL be permitted to operate as priority queue best effort. As the data transmission rate is faster in this mode, practical results SHALL be obtained before changes are made. This is inadequate for the cable/radio implementation. The most promising solution to this is to use the Event Information Table (EIT) in the Program and System Information Protocol (PSIP). This is defined by ATSC. The message format is not currently defined, but MAY be single entry, or multiple feasible. Essentially, the engineer would include in the PSIP stream opportunities for EAS signal insertion every 8 minutes maximum. If no PSIP is present or a limited context, the encoder/decoder will insert the EAS message into 1 is priority 1, immediately. If there is more than one message of priority 2, both will 10 priorities 1 and 2 SHALL override EAS CHD (Do Not Disturb) settings in consumer device. Priorities 1 and 2 lower (i.e. number higher) SHALL override all higher messages, which SHALL be stored in a buffer and retransmitted when the priority queue permits. An incomplete message, therefore, be accepted on reception. Also, messages with known errors will be accepted on re-reception. The first message MAY be via the IPMS path and the second message MAY be via the digital data mesh path. Making the agency as immediate should not modify this.

11) Priority 2 consider as priority 10, messages SHALL NOT be transmitted to SDARS or DES. Neither SHALL PGM nor PCH be transmitted. The volume of traffic is likely to become excessive. Making the urgency of priority 2 messages as immediate should not modify the value in DES of SDARS message selection or a consumer receiver user selectivity feature.

12) For best implementation, EAS-encoders/decoders SHOULD be automation communicable devices via standard protocols, such as VOPC Priority 1 SHALL be immediately transmitted, Priority 2 and 1 within 8 minutes, Priority 4 and 5 within 14 minutes, Automation Priority Value 4 and 7 within 24 minutes and all others within 28 minutes. If the traffic does not permit this, then SDARS and DES nationwide systems SHALL be permitted to operate as priority queue best effort. As the data transmission rate is faster in this mode, practical results SHALL be obtained before changes are made. This is inadequate for the cable/radio implementation. The most promising solution to this is to use the Event Information Table (EIT) in the Program and System Information Protocol (PSIP). This is defined by ATSC. The message format is not currently defined, but MAY be single entry, or multiple feasible. Essentially, the engineer would include in the PSIP stream opportunities for EAS signal insertion every 8 minutes maximum. If no PSIP is present or a limited context, the encoder/decoder will insert the EAS message into 1 is priority 1, immediately. If there is more than one message of priority 2, both will be inserted at the next opportunity. If there is priority 1 and more than one priority, then the lower priority queue will not be retransmitted until they transmit. Also, whether and an override SHALL be made. This data will come through the ETS 1-ETS-402-2002 which will be more complex in the MPEG signal or direct multichannel IP0 implementation. Whether priority 1