

Federal Aviation Administration

National Airspace System

Capital Investment Plan

Appendix E

Fiscal Years 2015 – 2019

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LIST OF ACRONYMS AND ABBREVIATIONS

--Number--	
4D	four dimensional
--A--	
AAtS	airborne access to SWIM
AAM	office of aerospace medicine
AAR	airport arrival rate
ABAAS	architectural barriers act accessibility standards
ABRR	airborne reroute execution
AC	advisory circular
ACAS-X	redesigned airborne collision avoidance system
ACAT	acquisition category
ACE-IDS	automated surface observing system controller equipment-information display system
ACEPS	ARTCC critical and essential power systems
ACM	adjacent center metering
ACS	aeronautical common services
AEB	acquisition executive board
ADA	American Disabilities Act
ADAS	automated weather observation data acquisition system
ADD	airworthiness directives development
ADS-B	automatic dependent surveillance-broadcast
ADS-C	automatic dependent surveillance-contract
AEB	ASIAS executive board
AEDT	aviation environmental design tool
AES	alternative energy systems
AFIS	automatic flight inspection system
AFS	FAA flight technologies and procedures division
AFSFM	Alaskan flight service facility modernization
AFSS	automated flight service station
A/G	air-to-ground
AGIS	airport geographic information system
AGL	above ground level
AI	aeronautical information
AIM	aeronautical information management
AIO	Office of Chief Information Officer
AIR	FAA aircraft certification service
AirNav	airports and navigations aids
AISR	aeronautical information system replacement
AIXM	aeronautical information exchange model
ALDARS	automated lightning detection and reporting system
ALS	approach lighting system
ALSF-2	approach lighting system with sequenced flashing light model 2
ALSIP	approach lighting system improvement program
AMASS	airport movement area safety system
AMEN	aerospace medical equipment needs
AMMS	automated maintenance management system

AMQ	Office of Acquisition Services
AMS	acquisition management system
AMSIS	aerospace medicine safety information system
ANF	air navigation facilities
ANICS	Alaskan national airspace system interfacility communications system
ANSP	air navigation service provider
AOC/FOC	airline operation center/flight operation center
AOCC	Atlantic operations control center
APB	acquisition program baseline
APNT	alternate positioning navigation and timing system
APP	automated procurement process
APT	advanced persistent threat
APTS	AVN process tracking system
ARAIM	advanced receiver autonomous integrity monitoring
ARC	aviation rulemaking committee
ARCM	airport and runway configuration management
ARE	aircraft and related equipment
ARMS	airspace resource management system
ARMT	airport resource management tool
ARSR	air route surveillance radar
ARTCC	air route traffic control center
ARTS IE/IIIE/IIIE	automated radar terminal system model IE/ IIIE /IIIE
ASAS	aviation safety analysis system
ASDE-3	airport surface detection equipment – model 3
ASDE-X	airport surface detection equipment – model x
ASIAS	aviation safety information analysis and sharing
ASKME	aviation system knowledge management environment
ASOS	automated surface observing system
ASR-7, 8, 9, 11	airport surveillance radar model 7, 8, 9, and 11
ASR/CD	airport surveillance radar/common digitizer
ASSC	airport surface surveillance capability
ASTI	Alaskan satellite telecommunication infrastructure
ASTM	American Society for Testing and Materials
ASWON	automated surface weather observation network
ATAG	aerospace transportation advisory group
ATC	air traffic control
ATCBI-4, 5, and 6	air traffic control beacon interrogator model 4, 5, and 6
ATCRBS	air traffic control radar beacon system
ATCS	air traffic control specialist
ATCSCC	air traffic control system command center
ATCT	air traffic control tower
ATDP	advanced technology development prototyping
ATIS	automated terminal information service
ATM	air traffic management
ATN	aeronautical telecommunication network
ATN	aviation training network
ATO	Air Traffic Organization
ATOP	advanced technologies and oceanic procedures
ATPA	automatic terminal proximity alert
ATSS	airway transportation system specialist
ATS	air traffic services
AVN	Aviation System Standards office

AVS	FAA office of aviation safety
AWOS	automated weather observing system
AWSS	automated weather sensor systems
--B--	
BCAR	business case analysis report
BCD	baseline change decision
BIS	building instrumentation system
BLI	budget line item
BPM	business process management
BUEC	back up emergency communication
BVR	beacon video reconstitutor
BWM	bandwidth manager
--C--	
C3	command and control communications
CAASD	Center for Advanced Aviation System Development
CAC	central air conditioning
CAMI	Civil Aerospace Medical Institute
CANSO	civil air navigation service organization
CARF	central altitude reservation function
CARTS	common-automated radar tracking system
CARSR	common air route surveillance radar
CAS	commercially available software
CAST	commercial aviation safety team
CAT	category of precision landing requirements
CATM	collaborative air traffic management
CATMT	collaborative air traffic management technologies
CAVS	CDTI assisted video separation
CBI	computer-based instruction
CCS	conference control switch
CD 2	common digitizer (converts analog radar data to digital format)
CDDS	CIWS data distribution system
CDM	continuous diagnostic and mitigation
CDM	collaborative decision making
CDR	critical design review
CDTI	cockpit display of traffic information
CEA	compliance and enforcement actions
CEDAR	comprehensive electronic data analysis
CERAP	center radar approach control
CFE	communications facilities enhancement
CFIT	controlled-flight-into-terrain
CFO	Chief Financial Officer
CFR	code of federal regulations
CI/EP	certification of imported/exported products
CIM	collaborative information management
CIO	chief information officer
CIWS	corridor integrated weather system
CIX	collaborative information exchange
CLEEN	continuous low energy, emissions and noise
CMA	configuration management automation

CMC	corrective maintenance contract
CNS	communications, navigation and surveillance
CONOPS	concept of operations
COMSEC	secure communications
CONUS	continental United States
COTS	commercial off-the-shelf
CPDLC	controller-pilot data link communications
CPDS	critical power distribution system
CRD	concept and requirements document
CRDR	concept requirements development readiness
CREWS	CTAS remote weather system
CSMC	cyber security management center
CSPA	closely spaced parallel approaches
CSPO	closely spaced parallel runway operations
CSPR	closely spaced parallel runways
CSSD	common status and structure data
CST	communication support team
CssWx	common support services weather
CTAS	center TRACON automation system
CTD	common terminal digitizer
CTS	coded time source
CWP	corporate work plan
CY	calendar year
--D--	
DALR	digital audio legal recorder
DA	decision altitude
DARPA	Defense Advanced Research Projects Agency
DASI	digital altimeter setting indicator
DataComm	data communications
DBRITE	digital bright radar indicator tower equipment
DC BUS	direct current electrical distribution system
DCIS	data communications integrated services
DCL	departure clearance
DCNS	data communication air/ground network service
DDR	detailed design review
DELPHI	DOT accounting system
DF	direction finder
DH	decision height
DHS	Department of Homeland Security
DME	distance measuring equipment
DMN	data multiplexing network
DMSMS	diminishing manufacturing sources and material sources
DOD	Department of Defense
DOE	Department of Energy
DOT	Department of Transportation
DOTS+	dynamic ocean tracking system plus
DP	departure procedure
DR	data repository
DR	disaster recovery
DRC	disaster recovery center
DREN	defense research and engineering network

DRSR	digital remote surveillance communication interface processor replacement
D position	data controller position
DSP	departure spacing program
DSR	display system replacement
DST	decision support tool
DT&E	development test and evaluation
DUATS/S	direct user access terminal system
DVOR	doppler VOR
DVRS	digital voice recorder system
--E--	
EA	enterprise architecture
EBUS	enhanced backup surveillance
ECG	en route communication gateway
EDC	enterprise data center
EDDA	environmental due diligence audits
EDMS	electronics drawing management system
EFS	electronic file service
EFSTS	electronic flight strip transfer system
EFVS	enhanced flight vision systems
EISA	Energy Independence and Security Act of 2007
ELITE	enhanced local integrated tower equipment
ELVO	enhanced low visibility operations
EMC	energy management and compliance
EMS	environmental management system
EOF	emergency operating facility
EOL	end of life
EON	emergency operations network
EOS	end of service
EOSH	environmental & occupational safety and health
EPA	Environmental Protection Agency
EPACT	Energy Policy Act of 2005
ER	environmental remediation
ERAM	en route automation modernization
ERIDS	en route information display system
E-Scan	electronic scan
ESCR	environmental site cleanup report
ESD	electrostatic discharge
ESSC	enhanced service small communities
ETR	emergency transmitter replacement
ETVS	enhanced terminal voice switch
EUROCONTROL	European ANSP
EVM	earned value management
EWD	weather information network server dissemination
--F--	
F-420	wind sensor
FAALC	FAA logistics center
FACT	future airport capacity task
FAF	final approach fix
FANS	future air navigation system

FAROS	final approach runway occupancy signal
FAS	flexible analysis system
FAT	factory acceptance test
FBW	fly by wire
FBWTG	FAA bulk weather telecommunications gateway
FCI	facility condition index
FCT	federal contract tower
FDCC	federal desktop core configuration
FDIO	flight data input/output
FDP2K	flight data processing 2000
FDPS	flight data publication service
F&E	facilities and equipment
FFRDC	federally funded research and development center
FFSP	future flight service program
FI	flight inspection
FICAM	federal identify credential and access management
FIAPA	flight inspection airborne processor application
FID	final investment decision
FIM-S	flight deck based interval management - spacing
FIR	flight information region
FIS-B	flight information service – broadcast
FISMA	federal information security management act
FIXM	flight information exchange model
FMC	flight management computer
FMS	flight management system
FNS	federal NOTAM system
FOC	final operating capability
FOC	flight operations center
FOMS	flight operations management system
FOQA	flight operation quality assurance
FOTT	fiber optic tie trunk
FOXS	flight object exchange service
FPDS-NG	federal procurement data system- next generation
FPPS	facility power panel schedule
FPS	fixed position surveillance
FSEP	facility service and equipment profile
FSRM	facility security risk management
FSS	flight service station
FST	fuel storage tank
FTB	Florida NextGen test bed
FTE	full time equivalent
FTI	FAA telecommunications infrastructure
--G--	
G-III	third generation reference receiver
GA	general aviation
GAO	Government Accountability Office
GAST-C	GBAS approach service type C
GBAS	ground-based augmentation system
GEO	geosynchronous communication satellite
G/G	ground to ground
GIM-S	ground based interval management - spacing

GIS	geographic information system
GLS	GPS landing system
GNAS	general NAS maintenance area
GNSS	global navigation satellite system
GOMEX	Gulf of Mexico
GPS	global positioning system
GSA	General Services Administration
GUI	graphical user interface
--H--	
HADDS	HOST ATM data distribution system
HAZMAT	hazardous materials
HCS	HOST computer system
HCP	hearing conservation program
HF	human factors
HGOPA	high gain open planar array
HIE	health information exchange
HITL	human-in-the-loop
HOST	en route computer system
HP DME	high power distance measuring equipment
HPSB	high performance sustainable building
HRJ	hydro-treated renewable jet (fuel)
HSI	human system integration
HSPD	Homeland Security Presidential Directive
HUD	heads-up-display
HUR	high update radar
HVAC	heating, ventilating and air conditioning
--I--	
IAP	initial investment analysis plan
IAPA	instrument approach procedures automation
IARD	investment analysis readiness decision
IATA	International Air Transport Association
IATI	international air traffic interoperability
ICAO	International Civil Aviation Organization
ICF	integrated control facility
IGCE	independent government cost estimate
ICMS	integrated control and management system
ICSS	integrated communications switching system
IDAC	integrated departure arrival capability
IDLIM	interference detection, location and mitigation
IDS	information display system
IDS	integrated display system
IFIS	integrated flight information system
IFP	instrument flight procedures
IFPA	instrument flight procedures automation
IFR	instrument flight rule
IG	Inspector General
IGCE	independent government cost estimate
IID	initial investment decision
ILS	instrument landing system

IM	interval management
IMC	instrument meteorological conditions
IMS	interval management spacing
IOA	independent operational assessment
IOC	initial operating capability
IP	internet protocol
IPDS	instrument procedure development system
IRD	interface requirement document
IRU	inertial reference unit
ISAM	integrated safety assessment model
ISD	in service decision
ISO	International Standards Organization
ISPD	implementation strategy and planning document
ISS	information systems security
IT	information technology
IT	integration testing
ITP	in-trail procedures
ITWS	integrated terminal weather system
ITWS NFU	ITWS national weather service filter unit
IVSR	interim voice switch replacement
--J--	
JAWS	Juneau airport wind system
JPALS	joint precision approach and landing system
JPDO	Joint Planning and Development Office
JRC	joint resources council
--K--	
KVM	keyboard video mouse
KW	kilowatts
--L--	
L5	second civil frequency
LAAS	local area augmentation system
LAHSO	land and hold short operations
LAN	local area network
L-Band	radar frequency band 1-2 giga-hertz
LCGS	low cost ground surveillance
LCSS	logistical center support system
LDACS	l-band digital aeronautical communication system
LDIN	lead in light system
LDRCL	low-density radio communication link
LED	light emitting diode
LIDAR	light detection and ranging
LIS	logistics and inventory system
LITE	local integrated tower equipment
LLWAS	low-level wind shear alert system
LOA	letters of agreement
LOB	line of business
LOC	localizer
LP	localizer performance

LPDME	low power distance measuring equipment
LPGBS	lightning protection, grounding, bonding, and shielding
LPV	localizer performance with vertical guidance
LRR	long-range radar
LRU	line replaceable units
LSS	logistics support services
LSSF	logistics support system and facilities
LVO	low visibility operations
--M--	
MALSR	medium-intensity approach light system with runway alignment indicator lights
MAMP	mobile asset management program
MASPS	minimum aviation performance standards
MASR	mobile/transportable airport surveillance radar
MATCT	mobile air traffic control tower
MB	marker beacon
MDR	multimode digital radio
MDS	meteorological data server
MEARTS	microprocessor en route automated radar tracking system
MIT/LL	Massachusetts Institute of Technology Lincoln Laboratory
MITRE	MITRE Corporation
MLAT	multilateration
MMAC	Mike Monroney Aeronautical Center
MOA	memorandum of agreement
MOB	contract award mobility
MOCC	midstates operations control center
Mode S	mode select
MOIE	mission oriented investigation and experimentation
MON	minimum operational network
MOPS	minimum operational performance standards
MPAR	multi-function phased array radar
MTR	military training route
MTSR	maintenance test system replacements
MX	mobile engine generator
--N--	
NADIN MSN	national airspace data interchange network – message switching network
NADIN PSN	national airspace data interchange network – package switching network
NAFIS	next generation flight inspection system
NAIMES	NAS aeronautical information enterprise system
NARP	national aviation research plan
NAS	national airspace system
NASA	National Aeronautics and Space Administration
NASDOC	national airspace system document
NASE	NAS adaptive services environment
NASPAC	national airspace system performance analysis capability
NASR	national airspace system resources
NAVAIDS	navigation aids
NAV Lean	navigation procedures implementation plan
NBSC	NextGen backup surveillance capability
NCAR	National Center for Atmospheric Research

NCP	NAS change proposal
NCR	NAS common reference
NDB	non-directional beacon
NEMC	NAS enterprise management centers
NEMS	NAS enterprise messaging service
NEPA	National Environmental Policy Act
NEXCOM	next generation air/ground communications
NEXRAD	next generation weather radar
NextGen	next generation air transportation system
NIDS	NAS information display system
NG-VRRP	next generation voice recorder replacement program
NGIP	NextGen implementation plan
NHIN	national health information network
NIEC	NextGen integration and evaluation capability
NISC	national airspace system implementation support contract
NLN	national logging network
NMCS	network management control system
NMR	NADIN MSN rehost
NNEW	NextGen network enabled weather
NOAA	National Oceanic and Atmospheric Administration
NOCC	national operations control center
NOP	national offload program
NOTAM	notice to airmen
NPI	NEXRAD product improvement
NPS	NextGen performance snapshots
NRN	national remote maintenance monitoring network
NSIP	NAS segment implementation plan
NSOC	NextGen surface observation capability
NSOS	national security officer service
NSPD	National Security Presidential Directives
NSWRC	next generation surveillance and weather radar capability
NTML	national traffic management log
NTSB	National Transportation Safety Board
NVRP	NAS voice recorder program
NVS	national airspace system voice system
NWP	NextGen weather processor
NWS	National Weather Service
--O--	
OA	operational analysis
OAPM	optimization of airspace and procedures in the metroplex
OARS	operational analysis and reporting system
OASIS	operational and supportability implementation system
OCS	operational control segment
OCS(X)	modernized operational control segment
ODALS	omni-directional airport lighting system
OE	operational error
OEAAA	obstruction evaluation/airport airspace analysis
OEP	operational evolution partnership
OFDPS	offshore flight data processing system
OI	operational improvement
O&M	operation and maintenance

OMB	Office of Management and Budget
OMT	operator maintenance terminal
OPS	operations
OPSNET	operations network
ORD	operational readiness demonstration
OSD	operational suitability demonstration
OSHA	Occupational Safety and Health Administration
OT	operational testing
OT&E	operation test and evaluation
OTM	oceanic trajectory management
OTM 4D	four dimensional-oceanic trajectory management
OTTM	oceanic tactical trajectory management
--P--	
PA	paired approach
PAF	primary alternate facility
PAPI	precision approach path indicator
PBN	performance based navigation
PBWP	product based work plan
PCB	polychlorinated biphenyl
PCPS	purchase card purchasing system
PCS	power conditioning system
PDARS	performance data analysis and reporting system
PDMP	predefined metering points
PDR	preliminary design review
PPE	personal protective equipment
PGW	protocol gateway
PIREPS	pilot reports
PIV	personal identification verification
PLM	programming language for microcomputers
PNT	position, navigation and timing
POCC	pacific operations control center
PPR	preliminary program requirements
PPS	precise positioning service
PR	procurement request
PRISM	FAA purchasing management system
PRM-A	precision runway monitor – alternate
PRM-E	precision runway monitor – electronic scan radar
PRMR	precision runway monitor - replacement
PS3	power systems sustain support
--Q--	
QA	quality assurance
QMS	quality management system
--R--	
RA	resolution advisory
RAPCON	radar approach control
RAPPI	random access planned position indicator
RASP	regional ADAS service processor
RCAG	remote communication air to ground

RCE	radio control equipment
RCF	radio communication facilities
RCISS	regulation and certification infrastructure system safety
RCL	radio communication link
RCLR	radio communications link repeater
RCLT	radio communications link terminal
RCM	reliability centered maintenance
RCO	remote communications outlet
RCOM	recovery communications
R&D	research and development
RDA	radar data acquisition
RDVS	rapid deployment voice switch
RE&D	research, engineering, and development
REIL	runway end identifier lights
REL	runway entrance lights
RepCON	replacement documentation and configuration identification system
RFI	radio frequency interference
RFI ELIM	radio frequency interference elimination
RFP	request for proposal
RI	runway incursion
RID	runway incursion device
RIRP	runway incursion reduction program
RMA	reliability maintainability availability
RMLS	remote monitoring and logging system
RLMS	runway replacement lamp monitoring system
RMM	remote maintenance monitoring
RMP	resource and management plan
RNAV	area navigation
RNP-4	required navigation performance-4 nm
ROC	radar operations center
ROC	regional operations center
RPG	radar product generator
RPM	revenue passenger mile
RSA	runway safety areas
RSA	runway safety assessment
R-side	radar controller position
RTCA	Radio Technical Commission for Aeronautics
RTP	resource tracking program
RTR	remote transmitter/receiver
RVP	radar video processors
RVR	runway visual range
RVSM	reduced vertical separation minimum
RWSL	runway status lights
RX	receiver
--S--	
S1P1	segment 1 phase 1
S1P2	segment 1 phase 2
SA	special authorization
SAA	special activities airspace
SAAR	special aircraft and aircrew authorization required
SAIDS	system Atlanta information display system

SAMS	special use airspace management system
SAPA	simplified aircraft-based paired approach
SAR	search and rescue
SARA	Superfund Amendment and Reauthorization Act
SARPS	standards and recommended practices
SAS	safety assurance system
SAS	single authoritative source
SASS	small airport surveillance sensor
SASO	system approach for safety oversight
SATNAV	satellite navigation
SAWS	standalone weather sensors
SBAS	satellite based augmentation system
SBS	surveillance and broadcast services
SCDI	site control data interface
SCM	surface conformance monitoring
SCS	secure conference system
SDA	system design approval
SDAT	sector design and analysis tool
SDD	software design document
SE2020	system engineering 2020 contract
SESAR	Single European Sky ATM Research
SFA	special flight authorizations
SFMA	strategic flow management application
SGS-T	signal generator subsystem – type
SID	standard instrument departure
SIIA	simultaneous independent instrument approach
SIM	surveillance interface modernization
SIR	screening information request
SLEP	service life extension program
SMA	surface movement advisor
SMGCS	surface movement guidance control system
SMS	safety management system or surface management system
SOA	service oriented architecture
SOW	scope of work
SpclAC	special airworthiness certifications
SPO	safety policy
SPR	safety promotion
SPS	standard positioning service
SRM	safety risk management
SRMTS	safety risk management tracking system
SRS	software requirements specification
SSC	systems support center
SSD	significant standards difference
SSDI	system security design and integration
SSPP	strategic sustainability performance plan
SSRM	seismic safety risk mitigation
SSS	system segment specification
STAR	standard terminal arrival routes
STARS	standard terminal automation replacement system
STARS E/L	STARS enhanced local integrated tower equipment / local integrated tower equipment
STARS ELITE	STARS enhanced local integrated tower equipment
STARS LITE	STARS local integrated tower equipment

STBO	surface trajectory based operation
STDDS	SWIM terminal data distribution system
StdAC	standard airworthiness certifications
STEM	science technology engineering math initiation
STEN	satellite telephone emergency network
STEP	sustainment and technology evolution plan
STF	surface tactical flow
STM	surveillance and tracking module
STM	surface traffic management
STVS	small tower voice switch
SUA	special use airspace
SW	software
SWAC	system-wide analysis capability
SWIM	system-wide information management
--T--	
TACAN	tactical air navigation antenna
TAMR	terminal automation modernization replacement
TARP	traffic analysis and review program
TBD	to be determined
TBFM	time-based flow management
TBM	time based metering
TBO	trajectory based operations
TCAS	traffic alert and collision avoidance system
TCS	terrestrial communication subsystem
TDLS	tower data link service
TDWR	terminal Doppler weather radar
TE	test equipment
TechNET	technicians network
TFDM	tower flight data manager
TFM	traffic flow management
TFMS	traffic flow management system
TFR Bldr	temporary flight restriction builder
THL	takeoff hold lights
TIS-B	traffic information service-broadcast
TMA	traffic management advisor
TMC	traffic management coordinator
TMI	traffic management initiative
TMU	traffic management unit
TPC	TFM processing center
TR	technology refresh
TRACON	terminal radar approach control
TRS-R	TFM remote site – reengineering
TSO	technical standard order
TSS	tower simulation system
TSSC	technical support services contract
TVSR	terminal voice switch replacement
--U--	
UAS	unmanned aircraft system
UATR	universal access transceiver receiver

UAV	unmanned aerial vehicles
UCS	unified contracting system
UFPF	unified flight planning and filing
UHF	ultra high frequency
UIS	unstaffed infrastructure sustainment
UPS	uninterruptible power source
URET	user request evaluation tool
USGCB	U.S. government configuration baseline
USNS	U.S. Notices to Airmen system
--V--	
V	version
VASI	visual approach slope indicator
VDL	VHF data link
VDMR	VSCS display module replacement
VFR	visual flight rules
VHF	very high frequency
VITS	VSCS integrated test suite
VMC	visual meteorological conditions
VOIP	voice over internet protocol
VOR	very high frequency omni-directional range
VORTAC	very high frequency omni-directional range collocated with tactical air navigation
VOT	VOR test range
VRRP	voice recorder replacement program
VRTM	verification requirements traceability matrix
VSCS	voice switching and control system
VSBP	voice switch bypass system
VTABS	VSCS training and backup switch
VTCT	VTABS test controller replacement
--W--	
WAAS	wide-area augmentation system
WAFS	world area forecast system
WAM	wide area multilateration
WARP	weather and radar processor
WARP RAMP	WARP radar and mosaic processor
WCS	web coverage services
WDS	windshear detection service
WebCM	web configuration management
WIFS	weather internet file service
WFI	weather forecast improvements
WFS	web features services
WINS	weather information network server
WIT	workplace inspection tool
WJHTC	William J. Hughes Technical Center
WME	wind measuring equipment
WMS	web map services
WMSCR	weather message switching center replacement
WOCC	Washington operations center complex
WP	work package
WSDD	web service description documents

WSDS	wind shear detection services
WSP	weather systems processor
WTMA-P	wake turbulence mitigation for arrivals - procedures
WTMD	wake turbulence mitigation for departures
WTS-BMgmt	work tracking software - budget management
Wx	weather
Wx SAS 4D	weather single authoritative source 4 dimensional
WXXM	weather information exchange model