

Potential Avionics Packages
(Enablers taken from NextGen Implementation Plan, March 2012)

Bundle 1A

This bundle would typically be selected by air carriers, but may also be selected by some higher-end general aviation aircraft. Except where noted, bundle elements are required for consideration in the Section 221 program.

Avionics Enablers	Aircraft and Operator Guidance		Capability Overview	Target Aircraft	Target Area	Maturity
	Guidance	Schedule				
PBN						
RNAV 1, RNAV 2	AC 90-100A	Complete	Ability to fly more efficient routes and procedures			
RNP with Curved Path	AC 90-105	Complete	Ability to precisely fly departure, arrival and approach procedures including repeatable curved paths			
Vertical Navigation (VNAV)	AC 90-105, AC 20-138B	Complete	Ability to fly defined climb and descent paths			
RNP Approaches (Authorization Required) <ul style="list-style-type: none"> • to RNP 0.3 • with RF legs • RNP<1 missed approach optional 	AC 90-101A	Complete	Improves access to airports in reduced visibility with an approach that can turn to the runway; improved procedures to separate traffic flows			

Bundle 1A--continued

ADS-B Capabilities						
ADS-B Out	AC 20-165, AC 90-114	Complete	Enables improved air traffic surveillance and automation processing			
ADS-B In Applications						
ADS-B-In capable transceiver	Class A equipment under TSO-C166b or TSO-C154c	Complete				
Data Communications						
VDL mode 2 FANS-1/A+ Optional	AC 20-140A, AC 120-70B	Complete	Expansion of FANS to domestic clearances			

Bundle 2A

This bundle typically selected by general aviation, but may also be selected by some lower-end air carriers. Except where noted, bundle elements are required for consideration in the Section 221 program.

Avionics Enablers	Aircraft and Operator Guidance		Capability Overview	Target Aircraft	Target Area	Maturity
	Guidance	Schedule				
PBN						
RNAV 1, RNAV 2	AC 90-100A	Complete	Ability to fly more efficient routes and procedures			
Localizer Performance with Vertical Guidance (LPV)	AC 20-138B, AC 90-107	Complete	Improves access to many airports in reduced visibility, with an approach aligned to the runway			
ADS-B Capabilities						
ADS-B Out	AC 20-165, AC 90-114	Complete	Enables improved air traffic surveillance and automation processing			
ADS-B In Applications						
Airborne/Ground CDTI	AC 20-172A TSO-C195a	Complete	Improves awareness of other traffic			
Data Communications						
None						

Bundles Targeted for 2016
(Enablers taken from NextGen Implementation Plan, March 2012)

Bundle 1B

This bundle typically selected by air carriers, but may also be selected by some higher-end general aviation aircraft. Capabilities beyond 1A shown.

Avionics Enablers	Aircraft and Operator Guidance		Capability Overview	Target Aircraft	Target Area	Maturity
	Guidance	Schedule				
PBN						
Trajectory Operations Navigation Standard	TBD	2014	Enhancement to PBN capabilities			
ADS-B In Applications						
Interval Management	AC 20-172B, TSO-C195b, AC 90-114B	2014	Displays along-track guidance, control and indications, and alerts			
Data Communications						
ATN Baseline 2	AC20-140C, AC 120-70C	2014 2014	Clearances, terminal information, and Initial Trajectory Operations			

Bundle 2B

There are no proposed capabilities beyond 1A for this user segment (typically selected by general aviation, but may also be selected by some lower-end air carriers).