

12I2 NextGen Interoperability

Description

40 percent of all commercial aircraft from the top 25 aviation states are using fully interoperable NextGen technologies and capabilities by 2018.

Commentary (03/2012)

PROGRESS: Meet with the NextGen Chief Scientist to validate methodology and break down of the performance measure into three core elements:

1. 40 percent of all commercial aircraft from top 25 aviation states;
2. Interoperable NextGen technologies and capabilities; and
3. Fully using by 2018. In examining the core components with the NextGen Chief Scientist,

API-20 validated the key factors of each element:

- # of aircraft from the top 25 aviation states;
- Available NextGen technologies for:
 - o Performance Based Navigation (PBN)
 - o Automatic Dependent Surveillance – Broadcast (ADS-B)
 - o Data Communications (DataComm)
- Global implementation through corresponding ICAO Aviation System Block Upgrade modules. With the core elements validated, API-20 has continued to refine the key factors with information provided by the NextGen Chief Scientist:

Core Element 1:

40 Percent of all commercial aircraft from top 25 aviation states • Validated the list ranking states by in 2009 (most recent available) is the same used by the NextGen Office. • Determined that total number of aircraft for top 25 aviation states (utilizing Air Transport Intelligence database) and the corresponding 40% should be static. • Obtained data from NextGen Chief Scientist on transition of Part 121 airframes to NextGen capabilities.

Core Element 2:

Interoperable NextGen technologies and capabilities • Validated the use of the NextGen Implementation Plan (March 2011), Appendix A: NextGen Investments for Operators and Airports. • Obtained the NextGen Implementation Plan (March 2012), Appendix A: NextGen Investments for Operators and Airports. • Refined the availability of NextGen technologies and capabilities from FY-2012 through FY-2018 based on March 2012 plan and input from NextGen Chief Scientist.

Core Element 3:

Fully Utilizing by 2018 • Validated the use of ICAO Aviation System Block Upgrades (ASBU) - The Framework for Global Harmonization. • Validated the cross-referencing of available NextGen technologies (Core Element 2) to ASBU modules to track global availability from Block 0 – Block 3. • Refined the available NextGen technologies (Core Element 2) to those implementable in ASBU Block 0 (Now).

Period Table

| | Actual | Target | Target Lines - Index | Target Lines - Index Range |
|----------------|---------------|---------------|-----------------------------|-----------------------------------|
| 10/2011 | 3 | Green | --- | --- |
| 11/2011 | 3 | Green | --- | --- |
| 12/2011 | 3 | Green | --- | --- |
| 01/2012 | 3 | Green | --- | --- |
| 02/2012 | 3 | Green | --- | --- |
| 03/2012 | 3 | Green | --- | --- |