Net Centricity
For
NextGen

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NextGen: The Short Story

- NextGen is a Congressionally mandated initiative to modernize the U.S. Air Transportation System in order to:
  - Increase **capacity** and **reliability**
  - Improve **safety** and **security**
  - Minimize the **environmental impact** of aviation

- **Net Centric?** : applying network methods and technologies to improve or transform operations and/or processes
JPDO Organization

**Governance**
- Senior Policy Committee
- JPDO Board of Directors

**Industry Leadership**
- NextGen Institute Management Council (IMC)

**Interagency Coordination**
- CIO Board
- Joint Architecture & Engineering Board
Net-Centric Operations

What are we going to net-enable?

• Operational Improvements included in the NextGen ConOps and JPDO Integrated Work Plan
• Everything “curb to curb” – and beyond
• Includes all National Airspace System constituents

We net-enable desired operational outcomes
Real World Example

Using network technologies and methodologies to improve or transform a process or operation

“Get the cash I need”
Real World Example

“Get the cash I need”

*Process transformed*

<table>
<thead>
<tr>
<th>Technology/methodology</th>
<th>Transformation/improvement</th>
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<tbody>
<tr>
<td>Role based access</td>
<td>Increased Security</td>
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<tr>
<td>Federation</td>
<td>Access anywhere, anytime</td>
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<tr>
<td>Distributed access</td>
<td>Greener, faster, safer</td>
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<td>Governance</td>
<td>Improvements, guarantees</td>
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NextGen Example

“Get the right weather information”

“Make best use of Special Use Airspace”

“Maximize sharing of surveillance information”

“Operate with less expense and bad emissions”
Net-Centric Operations

Current activity focus:

• Pilot a weather service
• Integrated Surveillance ConOps
• Net-centric related concept demonstrations
• Leverage other successes
What Can You Do To Help?

• Support our Net Centric Operations Working Group
  – See requirements on NextGen Institute Web Site
  – Contribute to our wiki page

• Support emerging Communities of Interest

• Pass along best practices

• Remain open to interagency solutions