BMD Architecture and Concept of Operation

Detection and tracking by various sensors (ground-based radar and Aegis destroyers)

Upper-tier interception by Aegis Destroyers (exo-atmosphia)

Mid-course phase

Lower-tier interception by Patriot PAC-3 (endo-atmosphia)

Boost phase

JASDF Aircraft Warning And Control Units
Ground-based radar
FPS-3(improved capability) and FPS-5
*Complemented by USFJ (X-band radar)

JASDF Surface to Air Missile (SAM) Units Patriot PAC-3
(Improvement to existing systems + acquisition of missiles)
*Complemented by USFJ (PAC-3 unit (Kadena))

Terminal phase

Ballistic missile

Interceptor

Protected area

JMSDF Maritime Units
Aegis destroyers (*Kongo* and others)
(Improvement to existing ships + acquisition of missiles)
*Complemented by USFJ (Aegis destroyers (*Shiloh* and others))

Commander, Joint Task Force-BMD

JASDF
JADGE system (command, control and communications system)
(Improvements to the existing system)