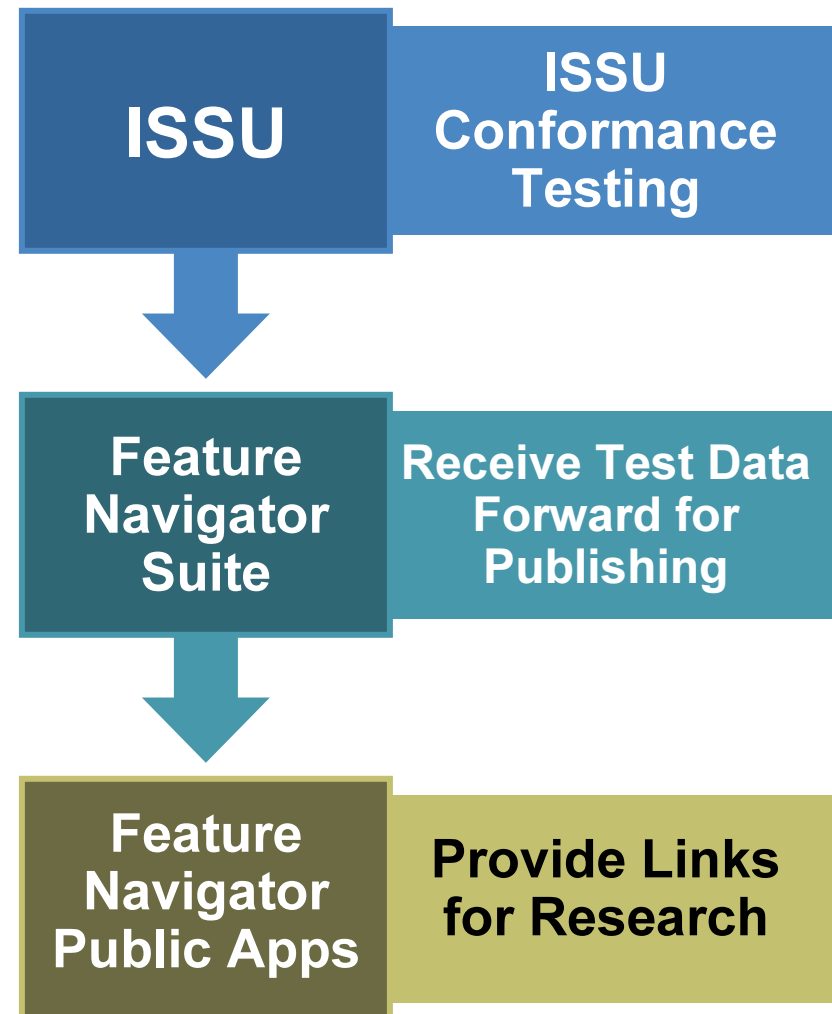




Researching In-Service Software Upgrade Compatibility

ISSU Requires Research: Research Is Made Easy with Cisco.com

- **Cisco IOS® Software Release 12.2SB will allow for in-service upgrades going forward**
- **Cisco internal testing will verify software compatibility**
- **A new Cisco IOS software release will be deemed compatible, base-level compatible, or incompatible**
- **Customers will need to know in advance whether new software is ISSU-compatible**
- **Cisco.com will provide the answer**



Compatibility Matrix

- Cisco testing will determine the in-service upgrade/downgrade compatibility for all internal SSO-capable Cisco IOS software—three designations are possible

C Compatible

Base-level system infrastructure **and** all optional HA-aware subsystems are compatible
An in-service upgrade or downgrade between these versions will succeed with minimal service impact

B Base-level compatible

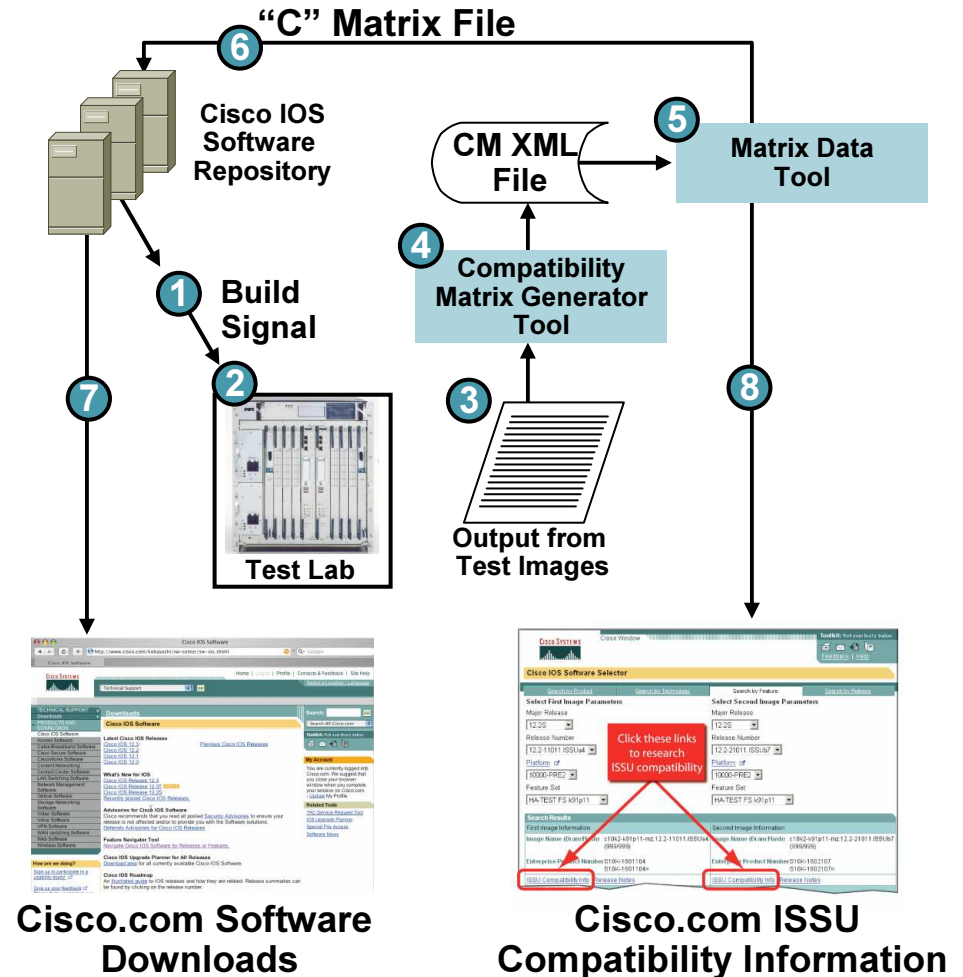
One or more of the optional HA-aware subsystems are not compatible
This means an in-service upgrade or downgrade between these versions will succeed, however, some subsystems will not be able to maintain state during the transition
Careful consideration of the impact this may have on operation and service is required before an in-service upgrade should be attempted

I Incompatible

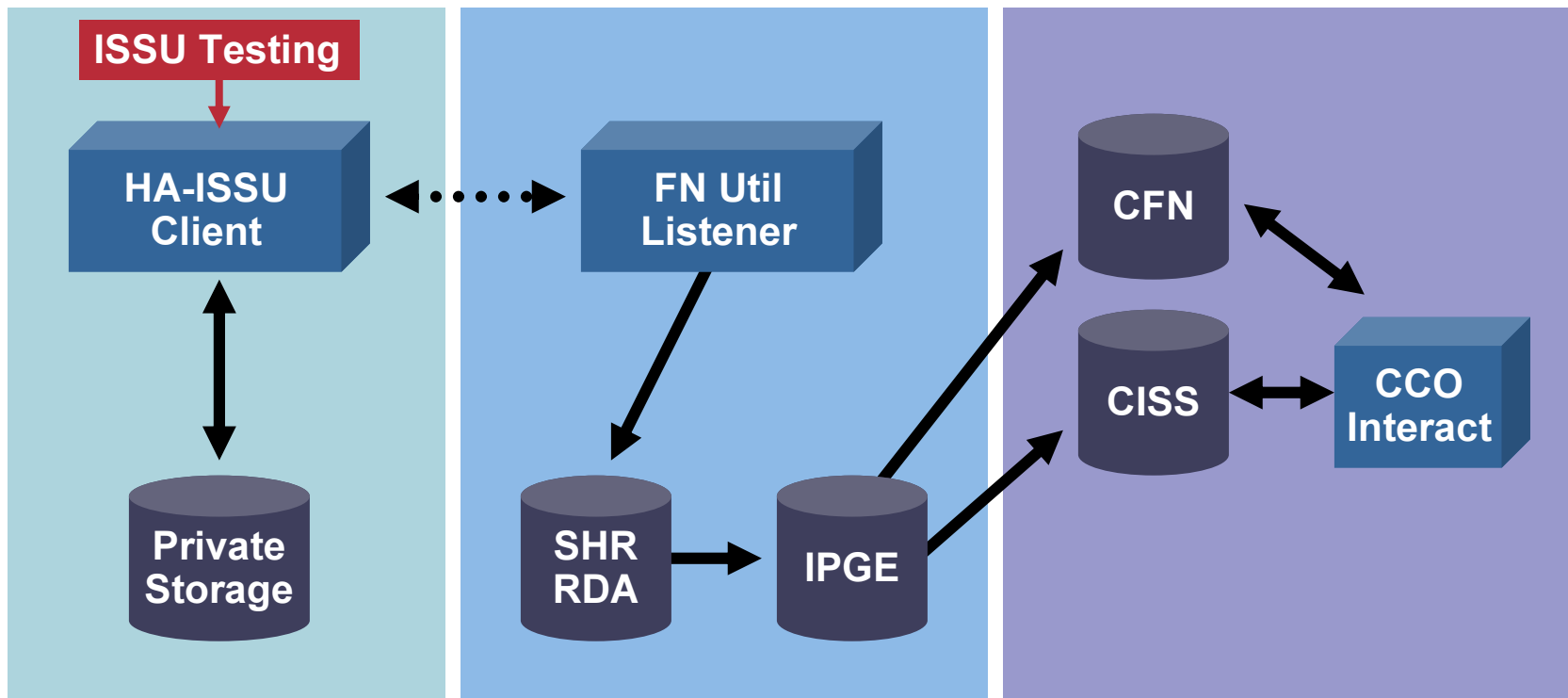
There exists core set of system infrastructure that must be able to interoperate in a stateful manner for SSO to function correctly
If any of these “required” features or protocols is not interoperable, then the two versions of the Cisco IOS images are declared “incompatible”
This means an in-service upgrade or downgrade between these versions is not possible

Cisco ISSU Compatibility Testing

- Cisco lab tests each new Cisco IOS release for compatibility with previous releases within an 18-month window
- Back-end system populate what you see on Cisco.com directly from these test results



System Interaction for Data Population

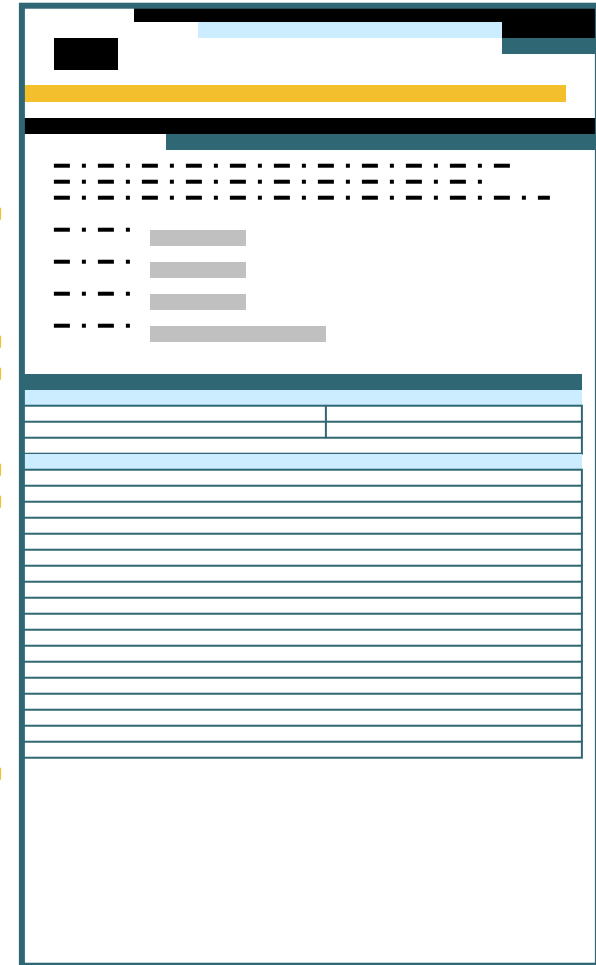


- **Cisco internal testing determines compatibility matrix**
- **Automated system feeds data to CCO for delivery to customers**
- **Customers interact with familiar tools – CFN and CISS**

Interface Modifications

Current Layout When Viewing 1 Image:

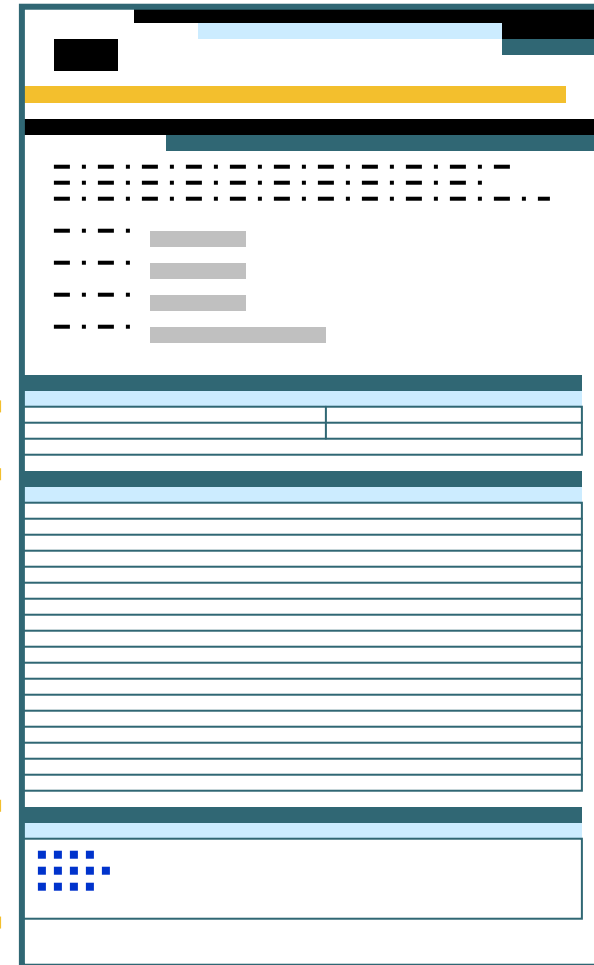
- Selected release, platform, feature set, image
- Image name, product, and flash/DRAM info
- Feature listing



Interface Modifications

New Interface Changes When Viewing 1 Image:

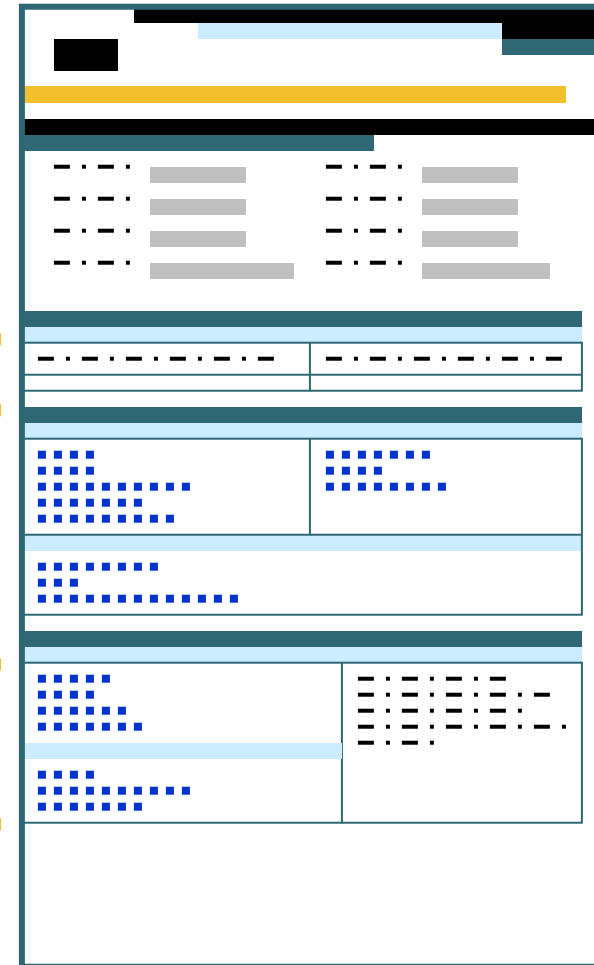
- **ISSU compatibility status listed**
- **List of potential ISSU images; user clicks to compare current image with new image**



Interface Modifications

New Interface Changes When Viewing 2 Images:

- ISSU compatibility status listed
- Compatible, incompatible, and notes section for ISSU-capable images



Summary

- Easy to use tools available on Cisco.com to determine Cisco IOS Software compatibility

www.cisco.com/go/fn

Products and Services
Cisco Feature Navigator

The screenshot shows the Cisco Feature Navigator website. The main heading is "Cisco Feature Navigator". Below it, there is a search bar and a "Go" button. The page is divided into several sections: "PRODUCTS & SERVICES", "TOOL INDEX", and "Cisco Feature Navigator". The "Cisco Feature Navigator" section contains the following text: "What Took Hours Now Takes Minutes. Cisco Feature Navigator is a web-based application that allows you to quickly find the right Cisco IOS and CatOS Software release for the features you want to run on your Network." Below this, there are sections for "Navigate Cisco IOS and CatOS software release by searching on", "Feature: Quickly find which Cisco IOS or CatOS release supports your features (IP, BGP, etc....)", "Release: Quickly find the features in your Cisco IOS and CatOS releases or platforms.", "Compare Releases: Quickly Compare between Cisco IOS and CatOS releases.", and "Learn About Release 12.2(18)SXD: Extend Cisco IOS High Availability." The page also includes a "Toolkit" section with links for "Feedback" and "Help".

www.cisco.com/go/ciss

Products and Services
Cisco IOS Software Selector

The screenshot shows the Cisco IOS Software Selector website. The main heading is "Cisco IOS Software Selector". Below it, there is a search bar and a "Go" button. The page is divided into several sections: "PRODUCTS & SERVICES", "TOOL INDEX", and "Cisco IOS Software Selector". The "Cisco IOS Software Selector" section contains the following text: "The Cisco IOS Software Selector finds the right Cisco IOS software and the amount of memory you need to run the Cisco IOS features you want to run on your Cisco platform." Below this, there are sections for "Navigate Cisco IOS software releases by searching on", "Product: Guided step-by-step product search for Cisco IOS releases.", "Technology: Quickly find which Cisco IOS features supports a technology (Voice, etc....)", "Feature: Quickly find which Cisco IOS release supports your features (IP, BGP, etc....)", "Release: Quickly find the features in your Cisco IOS releases or platforms.", and "Learn About Release 12.2(18)SXD: Extend Cisco IOS High Availability." The page also includes a "Toolkit" section with links for "Feedback" and "Help".

CISCO SYSTEMS

