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IANA Functions Stewardship Transition

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Background

- On 14 March 2014, the U.S. Commerce Department's National Telecommunications and Information Administration (NTIA) announced its intention to transition out of its current role with respect to the Internet Assigned Numbers Authority (IANA) Functions.

- NTIA called on ICANN to "convene global stakeholders to develop a proposal to transition the current role played by NTIA in the coordination of the Internet's domain name system (DNS)."

ICANN

Background, Cont.

- IANA is a traditional name used "to refer to the technical team making and publishing assignments of Internet protocol technical parameters."
- This technical team performs a set of tasks that involve the administration or coordination of many of the identifiers that allow the global Internet to operate.

Background, Cont.

- As described in the current IANA Functions contract between ICANN and NTIA, the IANA Functions are:
  - Domain Name System (DNS) Root Zone Management;
  - Internet Numbers Registry Management;
  - Protocol Parameter Registry Management, including management of the "Address and Routing Parameter Area" (.ARPA) TLD; and
  - Management of the "INTernational treaty organizations" (.INT) top-level domain.

ICANN

Overview and History of the IANA Functions

- **SAC067** was published on 15 August 2014. The report:
    - Establishes a baseline of understanding for those interested in how the upper-most level of the Internet's system of unique identifiers is managed;
    - Describes the activities included in the IANA Functions contract; and
    - Describes the functions performed under the IETF MoU.
- The report focuses on:
    - The IANA Functions contract; and
    - Describes all of the activities related to the IANA Functions as they are currently performed, including those that lie outside of the IANA Functions contract.
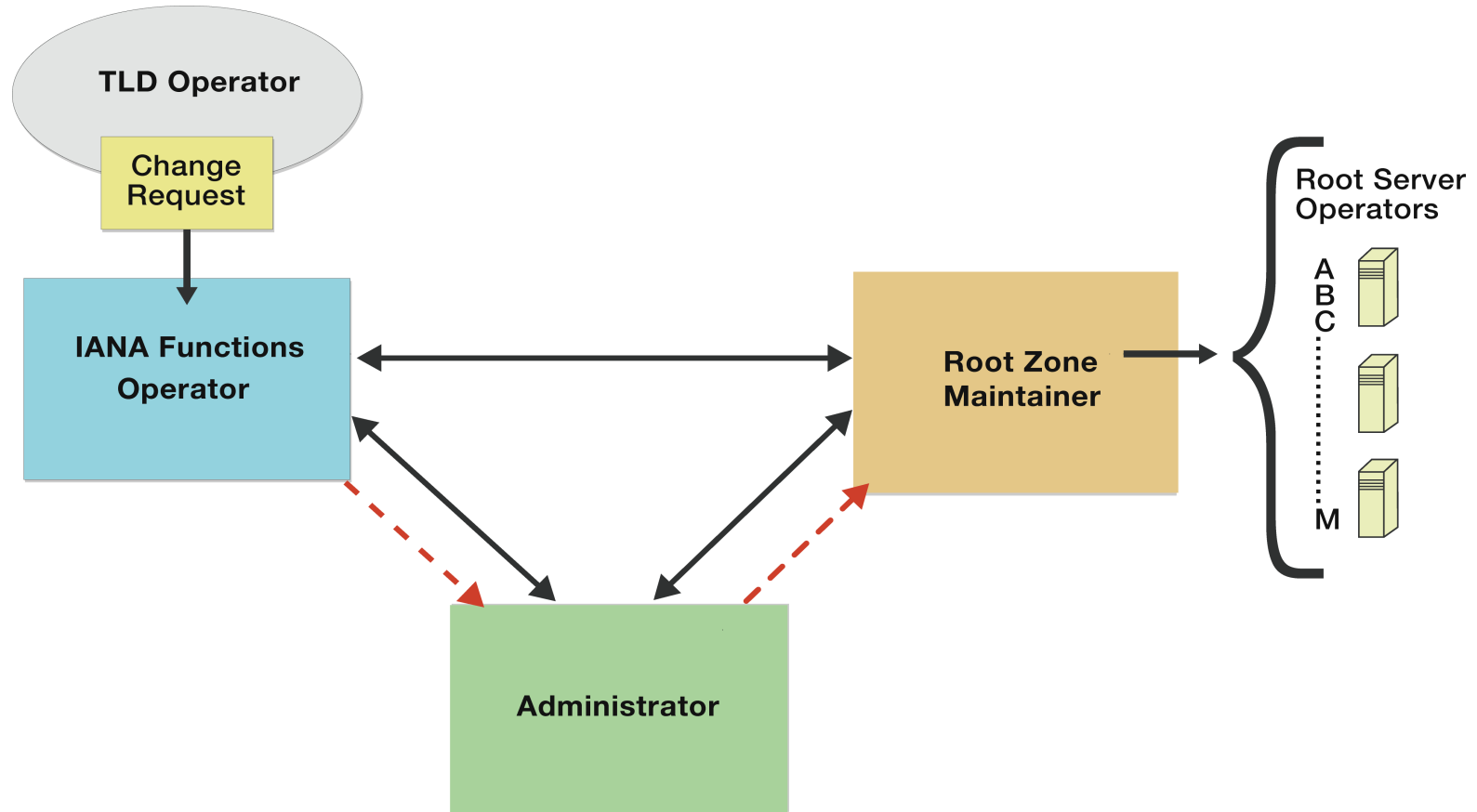
ICANN

Report on the IANA Functions Contract

SAC068 was published on 13 October 2014:

- In this report the SSAC:
  - Provides an overview of the key elements of the IANA Functions contract; and
  - Documents the role that NTIA currently plays with respect to the IANA Functions based on current public contractual information.

ICANN

NTIA and IANA Functions

IANA Functions	Involved Parties	NTIA Role
DNS Root Zone Management	ICANN, NTIA and Verisign	IANA Functions Contract Administrator and Root Zone Management Process Administrator
Internet Numbers Registry Management	ICANN under authority of Regional Internet Registries and their communities	IANA Functions Contract Administrator
Protocol parameter registry management	ICANN under authority of The Internet Engineering Task Force (IETF) / Internet Architecture Board (IAB)	IANA Functions Contract Administrator
.ARPA and .INT management	ICANN under authority of IETF/IAB and other existing processes	IANA Functions Contract Administrator

ICANN

NTIA and Root Zone Management

TLD Operator

Change Request

IANA Functions Operator

Root Zone Maintainer

Root Server Operators

A
B
C

M

Administrator

Chain of Authorization

Implementation Interactions

ICANN

IANA Stewardship Transition Coordination Group (ICG)

Patrik Fältström
ICG co-chair

http://ianacg.org/
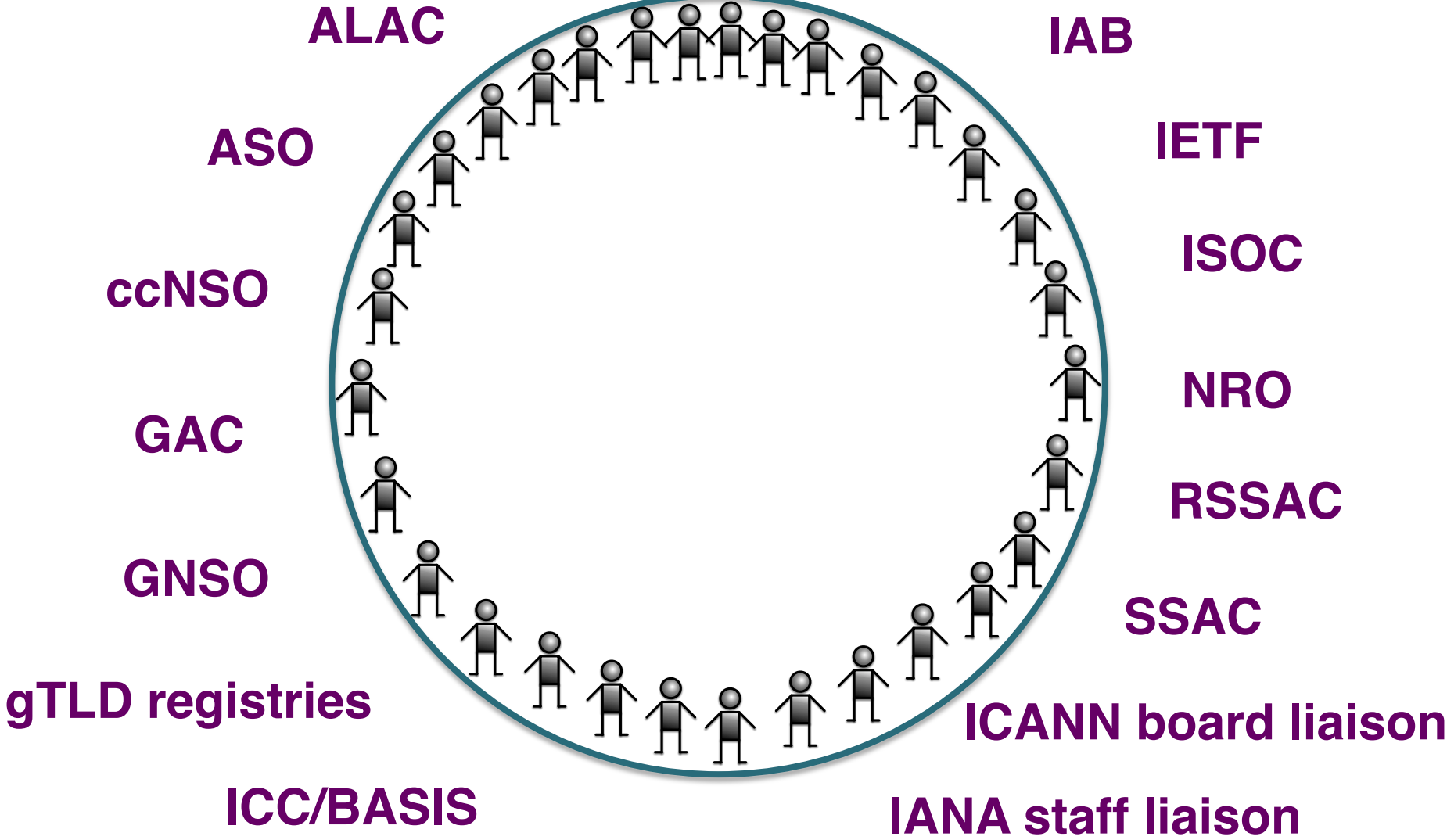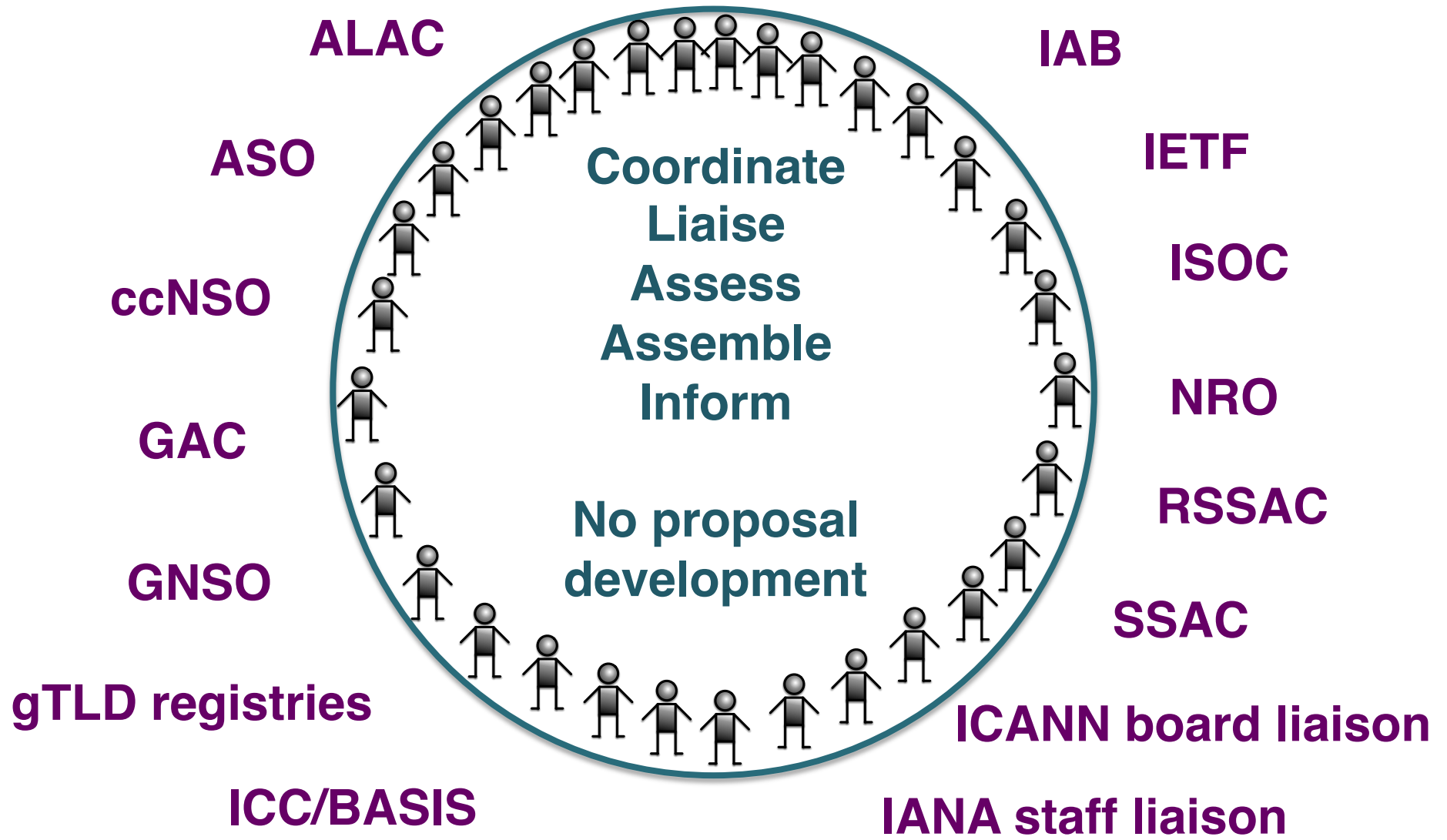
Transition background

- In March 2014, NTIA:
  - Announced intention to transition stewardship of IANA functions.
  - Asked ICANN to convene global stakeholders to develop a proposal to transition the current role played by NTIA.
- ICANN process resulted in creation of IANA Stewardship Transition Coordination Group (ICG)

ICG

ALAC
ASO
ccNSO
GAC
GNSO
gTLD registries
ICC/BASIS
IAB
IETF
ISOC
NRO
RSSAC
SSAC
ICANN board liaison
IANA staff liaison

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ICG

ALAC

ASO

ccNSO

GAC

GNSO

gTLD registries

ICC/BASIS

**Coordinate
Liaise
Assess
Assemble
Inform**

**No proposal
development**

IAB

IETF

ISOC

NRO

RSSAC

SSAC

ICANN board liaison

IANA staff liaison
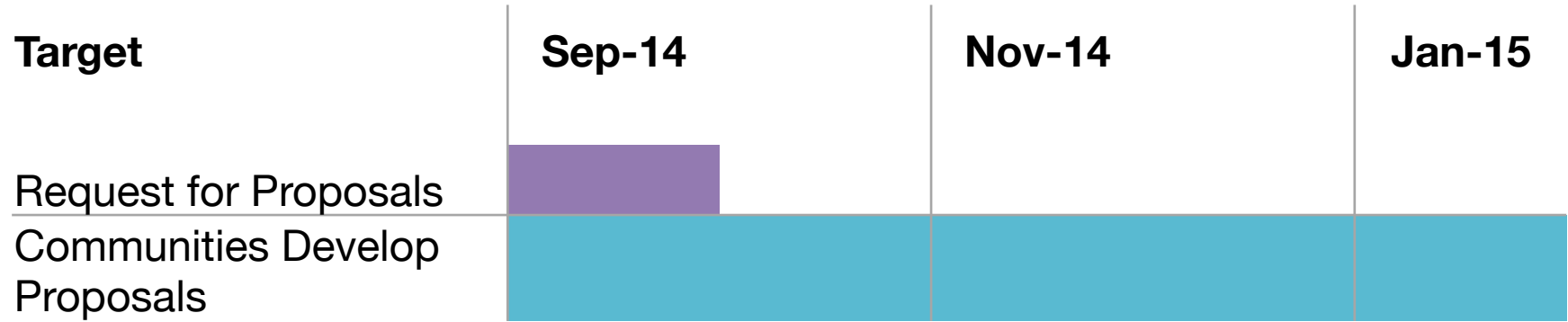
Focus of transition

- IANA functions currently specified in NTIA contract. IANA activities related to:
  – Protocol parameters registry management
  – DNS root zone management
  – Internet numbers registry management
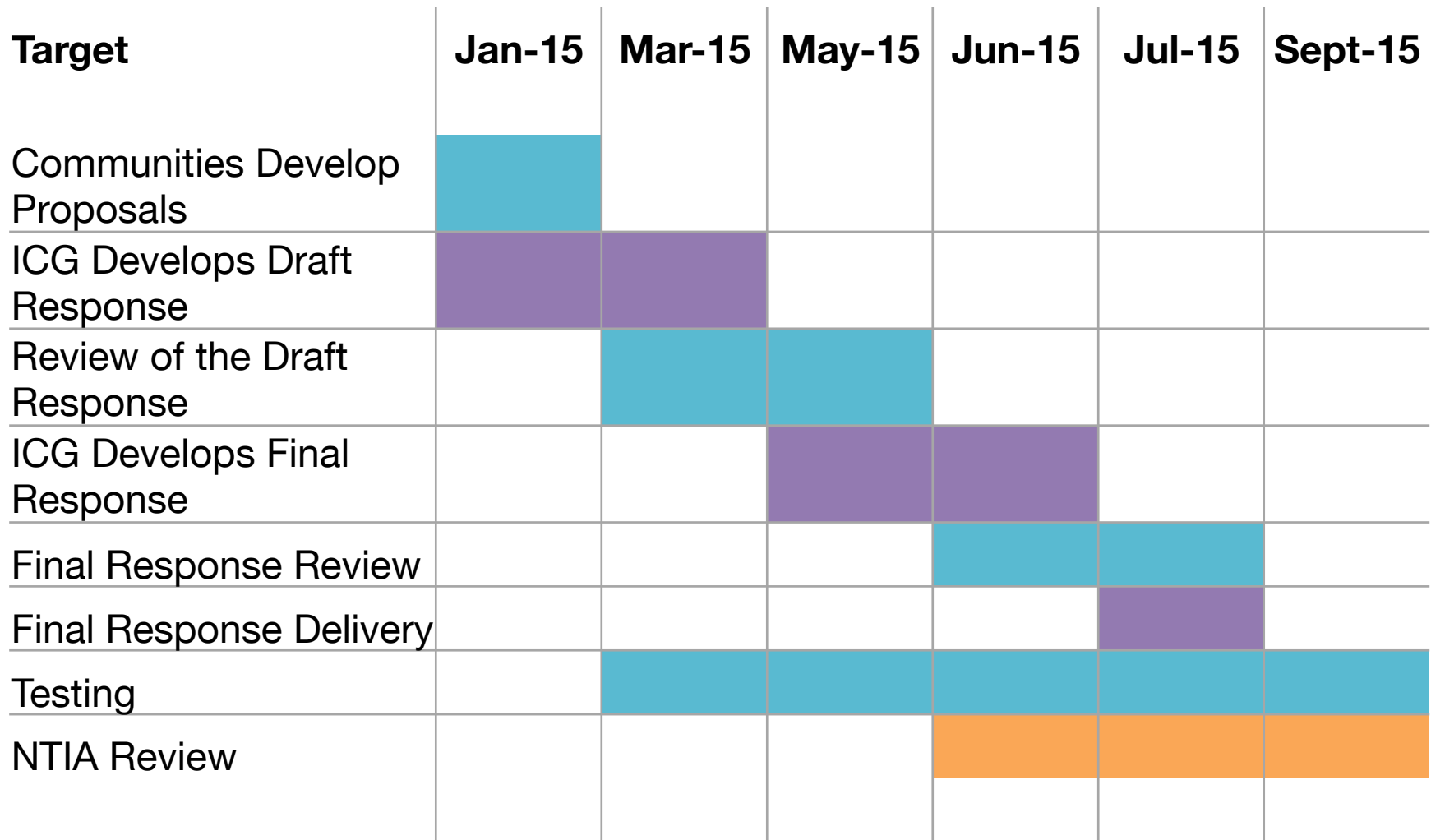- Stewardship (not policy development, etc.)

Transition proposal development

RIR communities

IETF community

Naming CWG
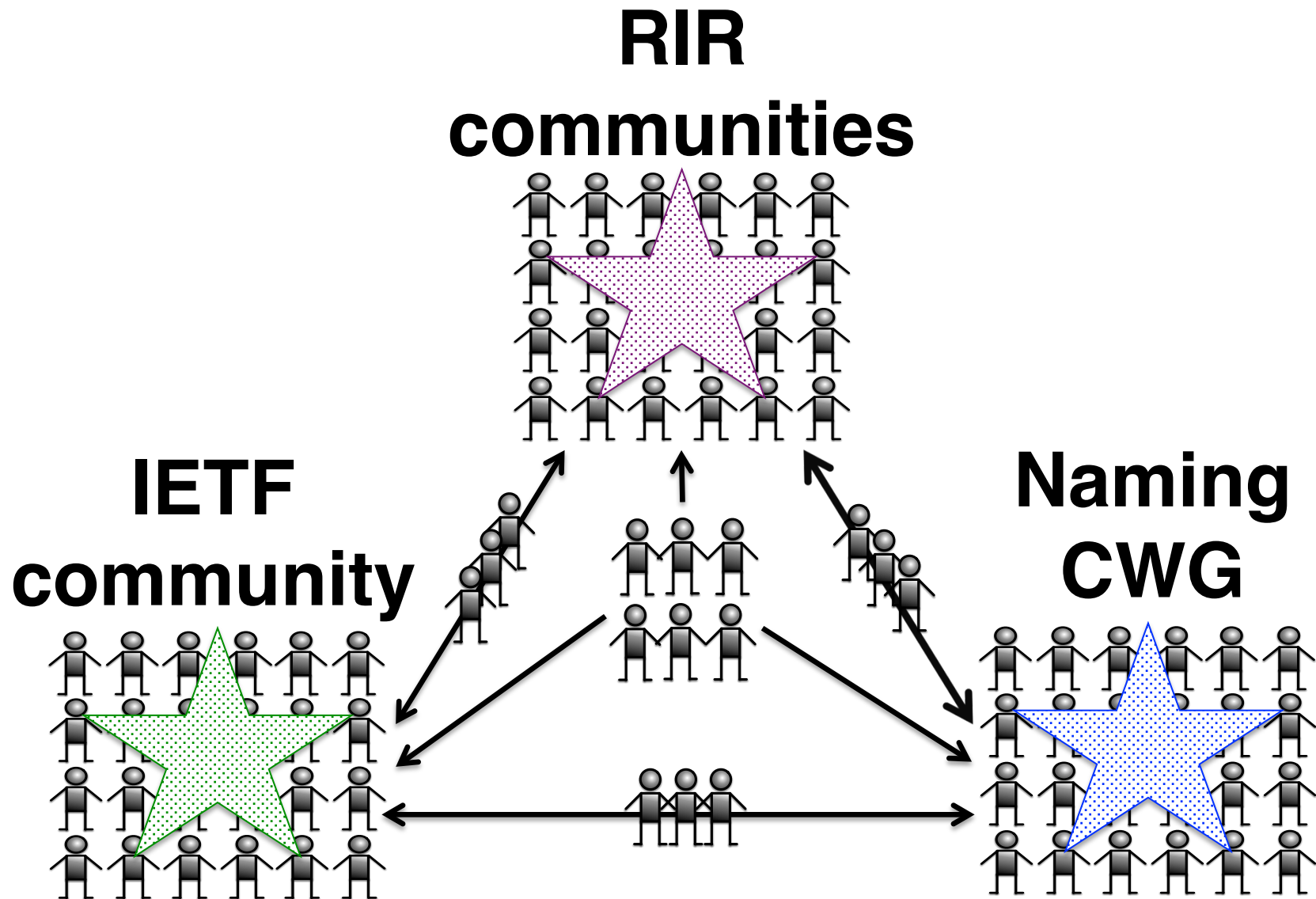
Community proposal elements

- IANA functions category and community use
- Existing pre-transition arrangements
  – Policy, oversight, accountability
- Post-transition oversight and accountability
- Transition implications
  – Operational requirements and continuity risks, legal framework requirements, workability evaluation, expected timeline
- How NTIA criteria were met
- Community process and consensus level

Target	Sep-14	Nov-14	Jan-15
Request for Proposals	████		
Communities Develop Proposals	███████████████████████████████		

ICG
Communities

Target	Jan-15	Mar-15	May-15	Jun-15	Jul-15	Sept-15
Communities Develop Proposals	■					
ICG Develops Draft Response	■	■				
Review of the Draft Response		■	■			
ICG Develops Final Response			■	■		
Final Response Review				■	■	
Final Response Delivery					■	
Testing		■	■	■	■	■
NTIA Review				■	■	■

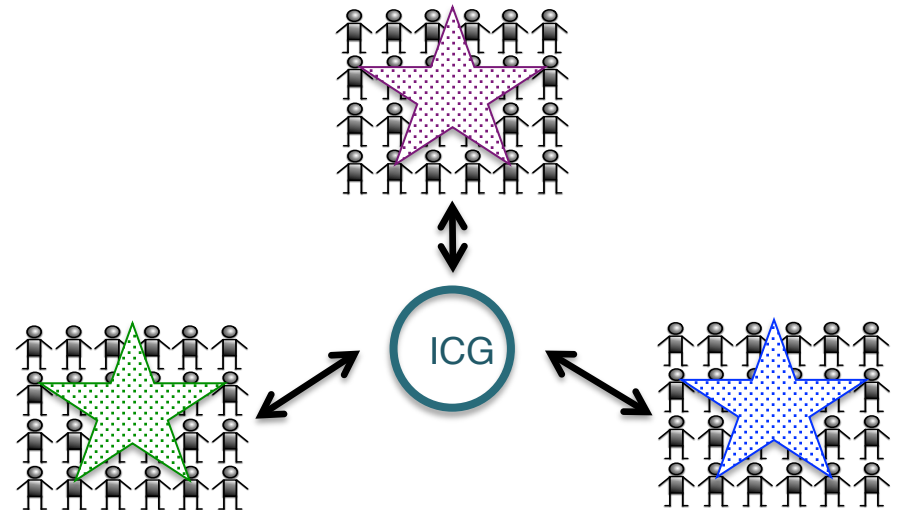| Legend |
|---|
| ICG |
| Communities |
| NTIA |

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Steps towards a single proposal
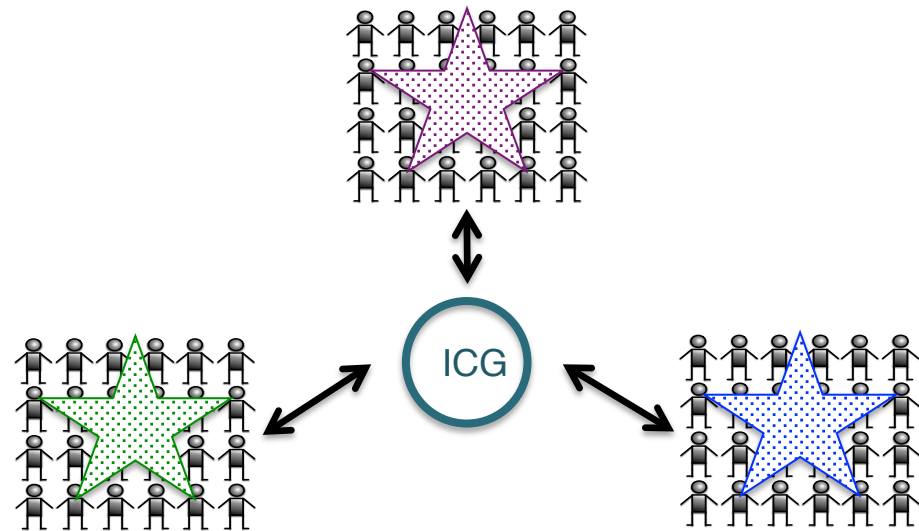
1. Individual proposal assessment
   - Completeness
   - Clarity
   - NTIA criteria met
   - Community comments accommodated
   - Consensus level achieved
   - Inclusiveness of community process

Steps towards a single proposal
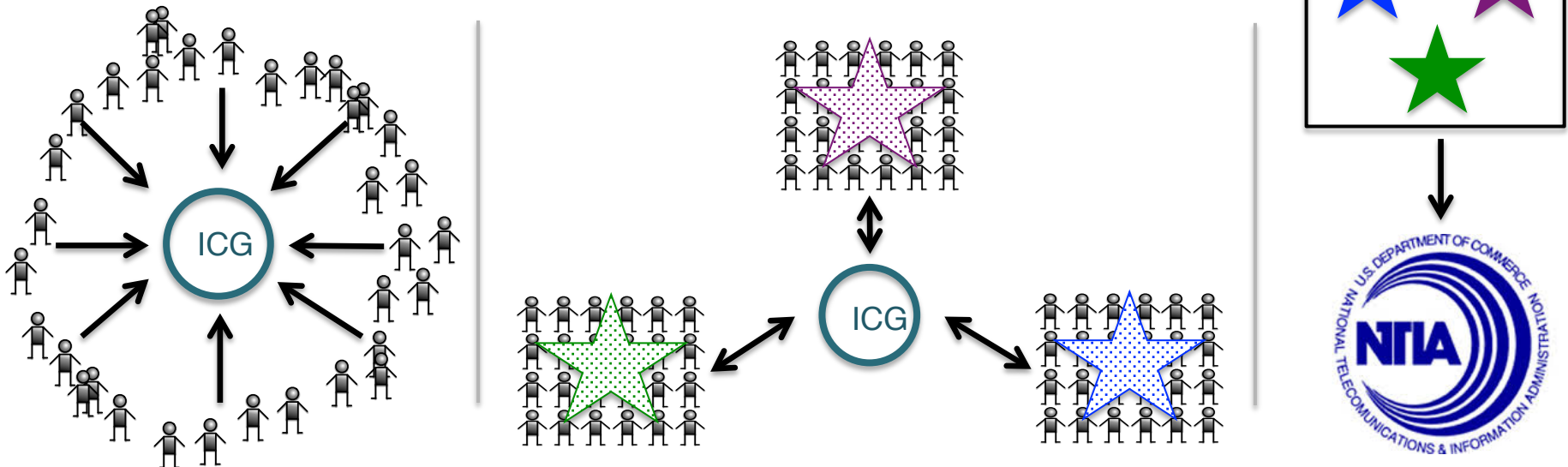
2. Unified proposal assessment
   – Compatability and interoperability
   – Gaps/overlaps
   – Accountability
     (under discussion)

Steps towards a single proposal

3. Proposal finalization
   – Public comment
   – ICG review
   – Changes in communities if necessary
   – Submission

References

- FAQ
  https://www.icann.org/resources/pages/icg-faqs-2014-10-10-en

- ICG Charter
  https://www.icann.org/en/system/files/files/charter-icg-27aug14-en.pdf

- RFP
  https://www.icann.org/en/system/files/files/rfp-iana-stewardship-08sep14-en.pdf

- Timeline
  – Description:
    https://www.icann.org/en/system/files/files/icg-process-timeline-08sep14-en.pdf
  – Graphic:
    https://www.icann.org/en/system/files/files/icg-process-timeline-graphic-10sep14-en.xlsx

- Mailing list archive:
  – http://mm.icann.org/pipermail/internal-cg/