

# Using DMARC

**DMARC is new kind of “policy publishing”**

**Early stages of gaining experience with deployment and use**

- *Let's help folks*

**Rough draft BCP ⇒**

**`draft-crocker-dmarc-bcp`**

- *Guide new adopters*
- *Raise issues amongst current operators*

# Overview 2-3

## 2. Development {T. Draegen}

*Developing Components*

*Developing Compliant Systems*

*Sending Compliant Email*

*≈*

*(DKIM/SPF) + DMARC/TXT*

*From: field alignment*

*Organizational domain*

*SMTP-time vs. later*

## 3. Barriers to Adoption (Fears) {A. Popowycz}

*Where is all my email is sent from?*

*Will I lose flexibility in email delivery?*

*Use of 3rd-party senders requires  
complex coordination?*

*Auto-forwarded mail often breaks  
DMARC (like mailing list  
problem)*

# Overview 4-5

## 4. Planning for DMARC adoption {E. Zwicky}

Integration and use:

*Decide what you need to do -  
p=quarantine & p=reject not  
intended for all use cases*

*Picking alignment and SP parameter  
values - tight for single domains;  
loose for many*

*Incremental roll-out, Sending - start  
w/easiest and/or most attacked*

*Incremental roll-out, Receiving -  
handling action vs. reporting*

## 5. DNS Configuration {M. Hammer}

*Malformed Policies*

*Reporting malformed policies back  
to owner (RUA) or Whois  
contact*

*Managing records - automate DKIM  
key rotation & DMARC records*

*Publishing reject policies for non  
mailing domains(!)*

# Overview 6-7

## 6. Receiver Processing {S.Solanki}

*Preparing for processing - looks at patterns of incoming domain names, abuse msgs, etc.; scoping implementation*

*Implementing at receiver - DNS performance, DMARC caching, reporting schedule, instrumentation, config tweaking, {user display of trust?}*

*Rolling out - coordinate w/trusted senders, apply incrementally*

*Post roll-out - monitor! / **give feedback to DMARC community!***

## 7. Report Generation {M. Jones}

Detailed guidance, caveats, reminders, examples:

*Aggregate report naming and metadata - compressed & uncompressed have same name; guidance on fields*

*Minimum requirements for aggregate report records*

*Use and reporting of local policy "overrides" - receiver not "required" to comply*

*Minimum requirements for failure reports - failure of legitimate mail; occurrence of abuse*

# Overview 8

## 8. Report Receipt and Analysis {M. Jones}

*Report Receipt - typically daily email;  
typically few mail receivers*

*Report Analysis - correlate IP Adrs,  
reported volume, authentication  
failures; check for "new" mail  
sources(!),*

*Report Processing & Analysis Svcs -  
specialists are emerging...*