



Certified Server Validation (CSV)

“An MTA is talking to me directly. Are they OK?”

D. Crocker

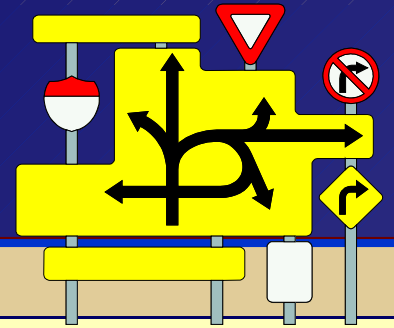
Brandenburg InternetWorking

mipassoc.org/csv

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Email Security Functions

Assess the safety of an agent

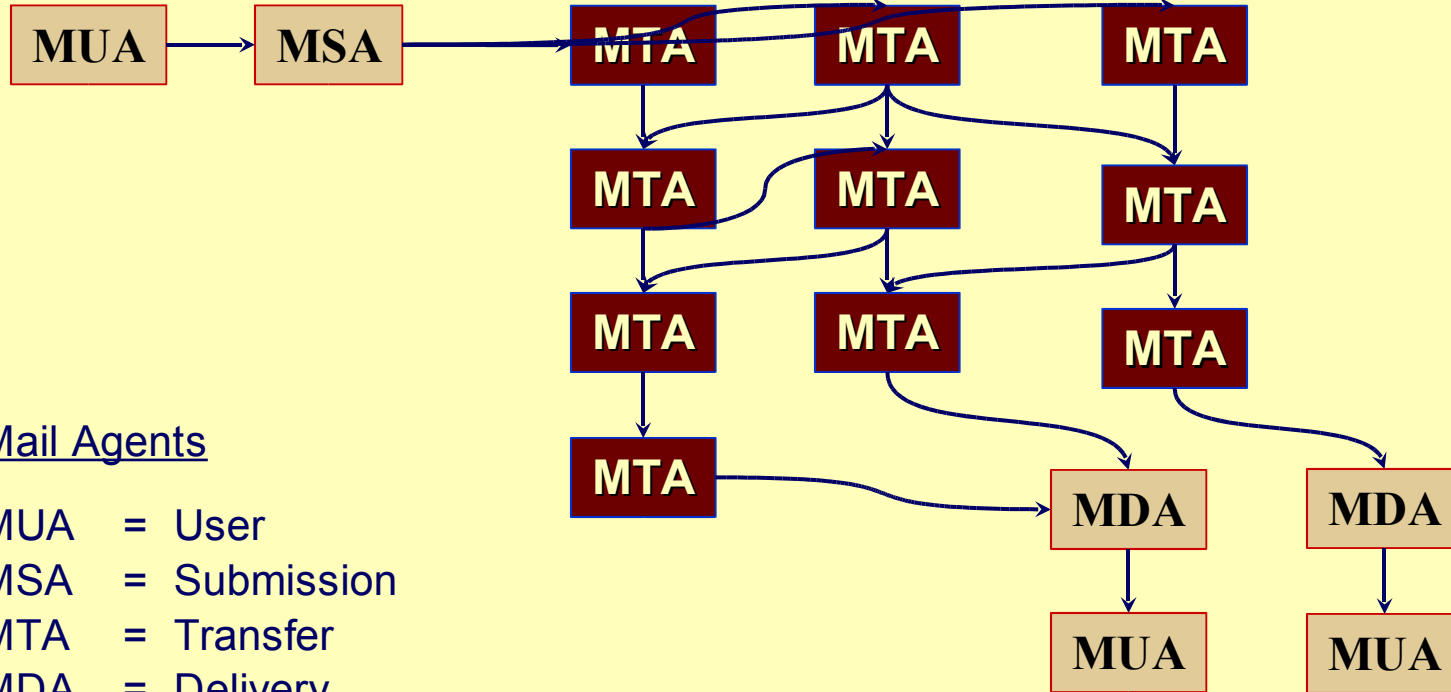


Term	Function
Identification	<u>Who</u> does this purport to be?
Authentication	Is it <u>really</u> them?
Authorization	What are they <u>allowed</u> to do?
Accreditation	Is the entity giving them that permission itself <u>recommended</u> ?

Choosing Who to Make Accountable

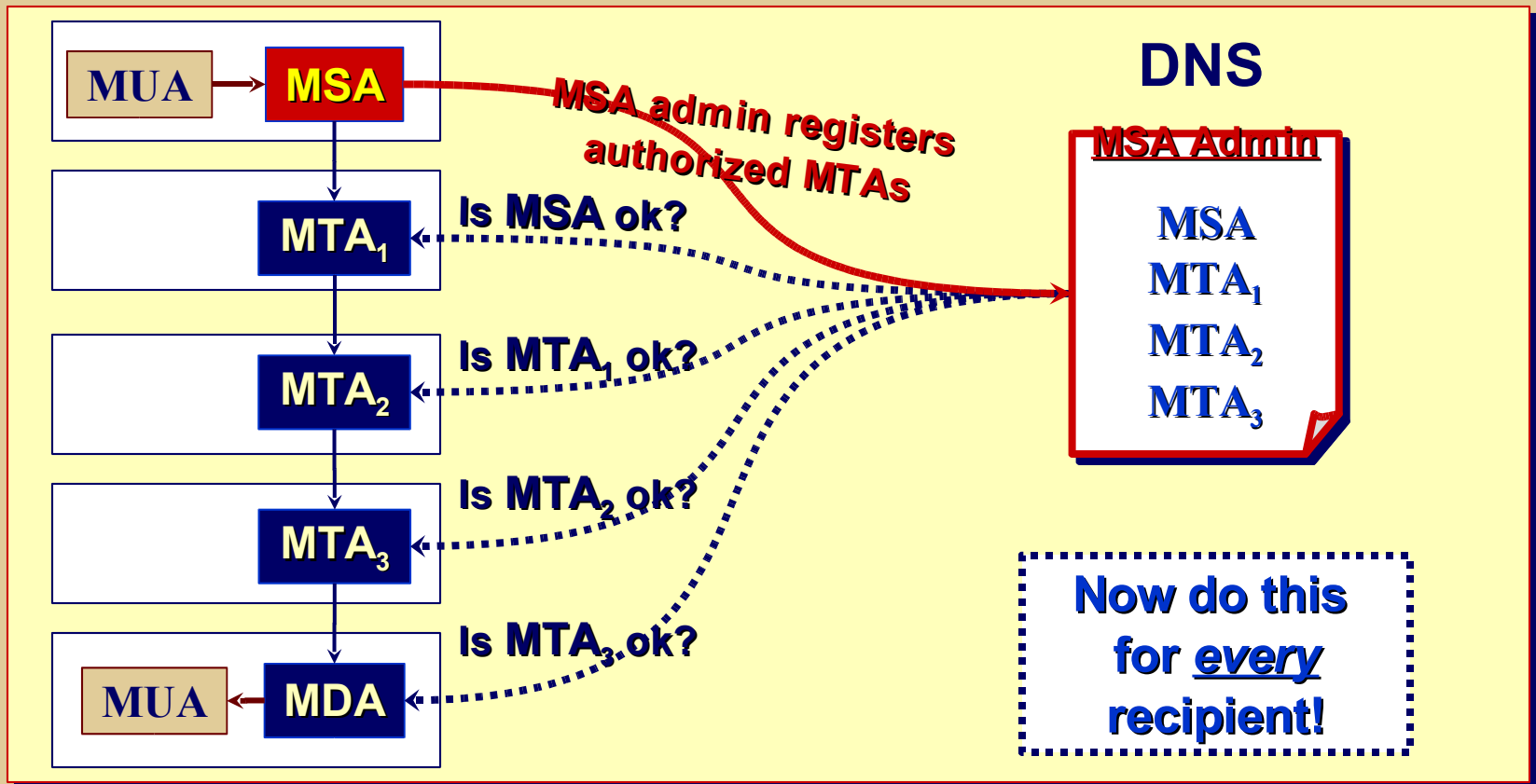
Who	Source of Identity	ID Type	Proposal
<i>Neighbor Site</i>	IP layer	IP network	
<i>Neighbor MTA</i>	IP layer	IP	
<i>Neighbor Admin</i>	SMTP EHLO	Domain	CSV
<i>Intermediary MTA</i>	Received header	Domain	
<i>Submitter</i>	Envelope bounce address	Email/Domain	SPF, BATV
<i>Submitter</i>	Content sender	Email/Domain	Sender-ID, DomainKeys
<i>Author</i>	Content author	Email/Domain	IIM

Email Path(s) Can Be Complicated



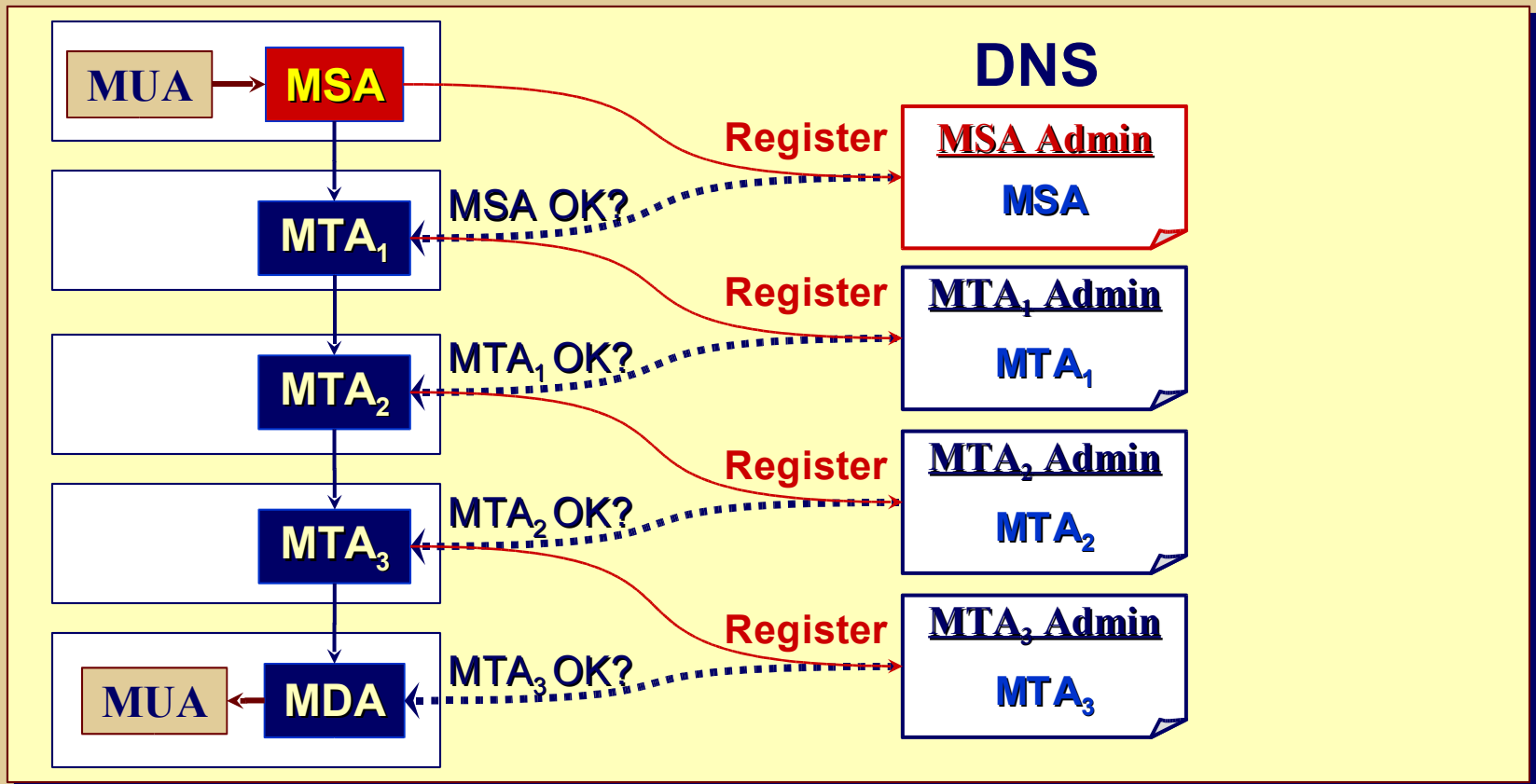
Path Registration Schemes

Source assesses MTAs along the path



Certified Server Validation

Local operator authorizes their own MTA



CSV In Operation

Function	Functions
Identification	SMTP neighbor sends HELO domain-name
Authentication	HELO name in DNS lists MTA's IP address?
Authorization	HELO name in DNS authorizes MTA to send email?
Accreditation	<ol style="list-style-type: none">1) HELO name in DNS may list accreditors2) Accreditors may list recommendation of HELO name in DNS

To follow-up...

- ✧ **Mailing list**
<http://mipassoc.org/mailman/listinfo/ietf-clear>
- ✧ **CSV specifications**
<http://ietf.org/internet-drafts/...>
 - ✧ **Client SMTP Validation (CSV)**
draft-ietf-marid-csv-intro-01
 - ✧ **Client SMTP Authorization (CSA)**
draft-ietf-marid-csv-csa-01
 - ✧ **Domain Name Accreditation (DNA)**
draft-ietf-marid-csv-dna-01
- ✧ **Internet mail architecture**
 - ✧ **draft-crocker-email-arch-01.txt**