



## Appendix D - U.S. Government Schema

| Object Class                  | Source       | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|-------------------------------|--------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                     |              | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| <b>Alias</b>                  | <b>X.521</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Aliased Object Name           | X.520        | x              |      | x               |      |          |         |        |            |             |      |
| <b>Application Entity</b>     | <b>X.521</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Common Name                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Description                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                 | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| Organization Name             | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name      | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Presentation Address          | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                      | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| Supported Application Context | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| <b>Application Process</b>    | <b>X.521</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Common Name                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Description                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                 | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name      | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                      | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| <b>Country</b>                | <b>X.521</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Country Name                  | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Description                   | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| Search Guide                  | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| <b>Device</b>                 | <b>X.521</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Common Name                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Description                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                 | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| Organization name             | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name      | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Owner                         | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                      | X.520        |                | x    |                 | x    |          |         |        |            |             |      |



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| Object Class                  | Source  | Implementation  |      | Data Population |      | Security |         |        |            |             |      |
|-------------------------------|---------|-----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                     |         | Mand.           | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Serial Number                 | X.520   |                 | x    |                 | x    |          |         |        |            |             |      |
| <b>Directory System Agent</b> |         | <b>X.521</b>    |      | <b>x</b>        |      |          |         |        |            |             |      |
| Common Name                   | X.520   | x               |      |                 | x    |          |         |        |            |             |      |
| Description                   | X.520   | x               |      |                 | x    |          |         |        |            |             |      |
| Knowledge Information         | X.520   |                 | x    |                 | x    |          |         |        |            |             |      |
| Locality Name                 | X.520   |                 | x    |                 | x    |          |         |        |            |             |      |
| Organization Name             | X.520   | x               |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name      | X.520   | x               |      |                 | x    |          |         |        |            |             |      |
| Presentation Address          | X.520   | x               |      |                 | x    |          |         |        |            |             |      |
| See Also                      | X.520   |                 | x    |                 | x    |          |         |        |            |             |      |
| Supported Application Context | X.520   | x               |      |                 | x    |          |         |        |            |             |      |
| <b>Document</b>               |         | <b>RFC 1274</b> |      | <b>x</b>        |      |          |         |        |            |             |      |
| Keyword                       | US GOVT | x               |      |                 | x    |          |         |        |            |             |      |
| Audio                         | RFC1274 |                 | x    |                 | x    |          |         |        |            |             |      |
| Document Author               | RFC1274 | x               |      |                 | x    |          |         |        |            |             |      |
| Document Location             | RFC1274 | x               |      |                 | x    |          |         |        |            |             |      |
| Document Publisher            | RFC1274 | x               |      |                 | x    |          |         |        |            |             |      |
| Document Title                | RFC1274 | x               |      |                 | x    |          |         |        |            |             |      |
| Document Version              | RFC1274 | x               |      |                 | x    |          |         |        |            |             |      |
| Information                   | RFC1274 |                 | x    |                 | x    |          |         |        |            |             |      |
| Last Modified Time            | RFC1274 |                 | x    |                 | x    |          |         |        |            |             |      |
| Last Modified By              | RFC1274 |                 | x    |                 | x    |          |         |        |            |             |      |
| Photo                         | RFC1274 |                 | x    |                 | x    |          |         |        |            |             |      |
| Manager                       | RFC1274 |                 | x    |                 | x    |          |         |        |            |             |      |
| Unique Identifier             | RFC1274 | x               |      |                 | x    |          |         |        |            |             |      |
| Common Name                   | X.520   | x               |      |                 | x    |          |         |        |            |             |      |
| Description                   | X.520   | x               |      |                 | x    |          |         |        |            |             |      |
| Document Identifier           | X.520   | x               |      |                 | x    |          |         |        |            |             |      |
| Locality Name                 | X.520   | x               |      |                 | x    |          |         |        |            |             |      |
| Organization Name             | X.520   | x               |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name      | X.520   | x               |      |                 | x    |          |         |        |            |             |      |



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| Object Class                       | Source | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|------------------------------------|--------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                          |        | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| See Also                           | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| <b>Document Series RFC 1274 x</b>  |        |                |      |                 |      |          |         |        |            |             |      |
| Common Name                        | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Description                        | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                      | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| Organization Name                  | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name           | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| See Also                           | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| Telephone Number                   | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| <b>Group Of Names X.521 x</b>      |        |                |      |                 |      |          |         |        |            |             |      |
| Business Category                  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Common Name                        | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Member Name                        | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Description                        | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name           | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Owner                              | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                           | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| <b>Locality X.521 x</b>            |        |                |      |                 |      |          |         |        |            |             |      |
| Description                        | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| Locality Name                      | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Search Guide                       | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| See Also                           | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| State/Province Name                | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MHS User X.402 x</b>            |        |                |      |                 |      |          |         |        |            |             |      |
| MHS Deliverable Content Length     | X.402  |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Types      | X.402  |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS               | X.402  |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Message Store                  | X.402  |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses | X.402  | x              |      |                 | x    |          |         |        |            |             |      |



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| Object Class                   | Source | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--------------------------------|--------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                      |        | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| MHS Preferred Delivery Methods | X.402  |                | x    |                 | x    |          |         |        |            |             |      |
| Organization                   | X.521  | x              |      |                 |      |          |         |        |            |             |      |
| Hours Of Operation             | US GOV | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Information Request Forms      | US GOV | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Keyword                        | US GOV | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Organization Chart             | US GOV | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Primary Point Of Contact       | US GOV | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Program List                   | US GOV | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Secondary Point Of Contact     | US GOV | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Business Category              | X.520  | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Description                    | X.520  | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Destination Indicator          | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| Fax number                     | X.520  | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| International ISDN Number      | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| Locality Name                  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Unit Name         | X.520  | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Physical Delivery Office Name  | X.520  | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Postal Address                 | X.520  | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Postal/Zip Code                | X.520  | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| PO Box                         | X.520  | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Preferred Delivery Method      | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| Registered Address             | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| Search Guide                   | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| See Also                       | X.520  | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| State/Province Name            | X.520  | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Street Address                 | X.520  | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Telephone Number               | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Teletex Terminal Identifier    | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| Telex Number                   | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| User Password                  | X.520  |                | x    |                 | x    |          |         |        |            |             |      |
| X.121 Address                  | X.520  |                | x    |                 | x    |          |         |        |            |             |      |



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| Object Class  | Source       | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|--------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute   |              | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| RFC822 Mailbox                                      | COSINE       | x              |      |                 | x    |          |         |        |            |             |      |
| Room Number   | COSINE       | x              |      |                 | x    |          |         |        |            |             |      |
| Algorithms Supported                                | SDN.702      |                | x    |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                                    | SDN.702      |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Certificate                   | SDN.702      |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                   | SDN.702      |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate | SDN.702      |                | x    |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                   | SDN.702      |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length                      | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Types                       | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS                                | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Message Store                                   | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses                  | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery Methods                      | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| Alternate Recipients                                | DMS          |                | x    |                 | x    |          |         |        |            |             |      |
| Backpointers  | DMS          |                | x    |                 | x    |          |         |        |            |             |      |
| <b>Organization Person</b>                          | <b>X.521</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Keyword   | USGOVT       | x              |      |                 | x    |          |         |        |            |             |      |
| Business Category                                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Common Name   | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Description   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Destination Indicator                               | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| Fax Number  | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| International ISDN Number                           | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| Locality Name                                       | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Organization Unit Name                              | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Physical Delivery Office Name                       | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Postal Address                                      | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Postal/Zip Code                                     | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| PO Box  | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |



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| Object Class  | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute   |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Preferred Delivery Method                           | X.520   | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Registered Address                                  | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| See Also  | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name                                 | X.520   | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Street Address                                      | X.520   | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Surname   | X.520   | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Telephone Number                                    | X.520   | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Teletex Terminal Number                             | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Teletex Terminal Identifier                         | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Telex Number  | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Title   | X.520   | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| User Password                                       | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| X.121 Address                                       | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Algorithms Supported                                | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| April User Key Management Signature                 | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| August User Key Management Signature                | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| December User Key Management Signature              | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| February User Key Management Signature              | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| January User Key Management Signature               | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| June User Key Management Signature                  | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| July User Key Management Signature                  | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| March User Key Management Signature                 | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| May User Key Management Signature                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Certificate                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| November User Key Management Signature              | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| October User Key Management Signature               | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |



| Object Class   | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute  |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| SDNS Key Management Certificate                      | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate                      | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| September User Key Management Signature              | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Certificate                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Suite A User Signature Certificate                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Digital Signature Certificate | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Alternate Recipient                                  | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Alias Pointer  | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Backpointers   | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Effective Date                                       | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Expiration Date                                      | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| List Pointer   | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses with Capabilities | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Minimize   | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Nationality  | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery                               | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length                       | X.402   |                | x    |                 | x    |          |         |        |            |             |      |
| MHS-Deliverable Content Types                        | X.402   |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS                                 | X.402   |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Message Store                                    | X.402   |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses                   | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery Methods                       | X.402   |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Undeliverable EITS                               | X.402   |                | x    |                 | x    |          |         |        |            |             |      |
| RFC822 Mailbox                                       | COSINE  | x              |      |                 | x    |          |         |        |            |             |      |
| Room Number  | COSINE  |                | x    |                 | x    |          |         |        |            |             |      |
| Text Encoded Originator/Recipient Address            | COSINE  |                | x    |                 | x    |          |         |        |            |             |      |
| User Certificate                                     | X.509   | x              |      |                 | x    |          |         |        |            |             |      |
| Description  | USPS    |                | x    |                 | x    |          |         |        |            |             |      |
| Generation Qualifier                                 | USPS    |                | x    |                 | x    |          |         |        |            |             |      |



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| Object Class                  | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|-------------------------------|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                     |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Given Name                    | USPS    |                | x    |                 | x    |          |         |        |            |             |      |
| Initials                      | USPS    |                | x    |                 | x    |          |         |        |            |             |      |
| Last Modified Time            | USPS    |                | x    |                 | x    |          |         |        |            |             |      |
| Name Differentiator           | USPS    |                | x    |                 | x    |          |         |        |            |             |      |
| Preferred Mail Address        | USPS    |                | x    |                 | x    |          |         |        |            |             |      |
| Unique Identifier             | USPS    |                | x    |                 | x    |          |         |        |            |             |      |
| <b>Organizational Role</b>    |         | X.521          | x    |                 |      |          |         |        |            |             |      |
| Common Name                   | X.520   | x              |      | x               |      |          |         |        |            |             |      |
| Description                   | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Destination Indicator         | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Fax Number                    | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                 | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| International ISDN Number     | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| State/Province Name           | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Street Address                | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Organization Unit Name        | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Physical Delivery Office Name | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| PO Box                        | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Postal Address                | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Postal/Zip Code               | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Preferred Delivery Method     | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Registered Address            | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Role Occupant                 | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                      | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Title                         | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Telephone Number              | X.520   | x              |      | x               |      |          |         |        |            |             |      |
| Teletex Terminal Identifier   | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Telex Number                  | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| User Password                 | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| X.121 Address                 | X.520   |                | x    |                 | x    |          |         |        |            |             |      |
| Algorithms Supported          | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |





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| Object Class   | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute  |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Algorithms Supported                                 | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| April User Key Management Signature                  | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| August User Key Management Signature                 | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                                     | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                                     | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| December User Key Management Signature               | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| February User Key Management Signature               | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| January User Key Management Signature                | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| July User Key Management Signature                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| June User Key Management Signature                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| March User Key Management Signature                  | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| May User Key Management Signature                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Certificate                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate  | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| November User Key Management Signature               | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| October User Key Management Signature                | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS Key Management Certificate                      | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS Key Management Digital Signature Certificate    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate                      | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| September User Key Management Signature              | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Certificate                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Digital Signature Certificate | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Suite A User Signature Certificate                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Alternate Recipient                                  | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Alias Pointer  | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Alternate Recipients                                 | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Backpointers   | DMS     |                | x    |                 | x    |          |         |        |            |             |      |



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| Object Class   | Source       | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|--------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute  |              | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Effective Date                                       | DMS          |                | x    |                 | x    |          |         |        |            |             |      |
| Expiration Date                                      | DMS          |                | x    |                 | x    |          |         |        |            |             |      |
| List Pointer   | DMS          |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses with Capabilities | DMS          |                | x    |                 | x    |          |         |        |            |             |      |
| Minimize   | DMS          |                | x    |                 | x    |          |         |        |            |             |      |
| Nationality  | DMS          |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery                               | DMS          |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length                       | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS                                 | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Message Store                                    | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses                   | X.402        | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery Methods                       | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Undeliverable EITS                               | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| MHS-Deliverable Content Types                        | X.402        |                | x    |                 | x    |          |         |        |            |             |      |
| RFC822 Mailbox                                       | COSINE       | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Organizational Unit</b>                           | <b>X.521</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Hours Of Operation                                   | US GOV       | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Information Request Forms                            | US GOV       | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Keyword  | US GOV       | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Organization Chart                                   | US GOV       | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Primary Point Of Contact                             | US GOV       | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Program List   | US GOV       | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Secondary Point Of Contact                           | US GOV       | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Business Category                                    | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Description  | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Destination Indicator                                | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| Fax number   | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| International ISDN Number                            | X.520        |                | x    |                 | x    |          |         |        |            |             |      |
| Locality Name  | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Unit Name                               | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Physical Delivery Office Name                        | X.520        | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |



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| Object Class  | Source   | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|----------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute   |          | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Postal Address                                      | X.520    | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| Postal/Zip Code                                     | X.520    | x              |      | x               |      | rm       | rm      | r      | r          | r           | na   |
| PO Box  | X.520    | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Preferred Delivery Method                           | X.520    |                | x    |                 | x    |          |         |        |            |             |      |
| Registered Address                                  | X.520    |                | x    |                 | x    |          |         |        |            |             |      |
| Search Guide  | X.520    |                | x    |                 | x    |          |         |        |            |             |      |
| See Also  | X.520    | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| State/Province Name                                 | X.520    | x              |      | x               |      | rm       | rm      | r      | r          | r           | r    |
| Street Address                                      | X.520    | x              |      | x               |      | rm       | rm      | r      | r          | r           |      |
| Telephone Number                                    | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Teletex Terminal Identifier                         | X.520    |                | x    |                 | x    |          |         |        |            |             |      |
| Telex Number  | X.520    |                | x    |                 | x    |          |         |        |            |             |      |
| User Password                                       | X.520    |                | x    |                 | x    |          |         |        |            |             |      |
| X.121 Address                                       | X.520    |                | x    |                 | x    |          |         |        |            |             |      |
| RFC822 Mailbox                                      | COSINE   | x              |      |                 | x    |          |         |        |            |             |      |
| Room Number   | COSINE   | x              |      |                 | x    |          |         |        |            |             |      |
| Algorithms Supported                                | SDN.702  |                | x    |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                                    | SDN.702  |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Certificate                   | SDN.702  |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                   | SDN.702  |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate | SDN.702  |                | x    |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                   | SDN.702  |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length                      | X.402    |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Types                       | X.402    |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS                                | X.402    |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Message Store                                   | X.402    |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses                  | X.402    |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery Methods                      | X.402    |                | x    |                 | x    |          |         |        |            |             |      |
| Alternate Recipients                                | DMS      |                | x    |                 | x    |          |         |        |            |             |      |
| Backpointers  | DMS      |                | x    |                 | x    |          |         |        |            |             |      |
| Account   | RFC 1274 |                | x    |                 |      |          |         |        |            |             |      |



| Object Class                                      | Source | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|--------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute   |        | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Description                                       | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Host  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                                     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                                 | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                          | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| See Also  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| User ID   | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| <b>ADMD</b>                                       |        | <b>X.4xx</b>   |      | <b>x</b>        |      |          |         |        |            |             |      |
| MHS Common Name                                   | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Administrative Directory Management Domain</b> |        | <b>NADF</b>    |      | <b>x</b>        |      |          |         |        |            |             |      |
| Business Category                                 | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Description                                       | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Destination Indicator                             | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Fax number  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                                     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                                 | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Physical Delivery Office Name                     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| PO Box  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Address                                    | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Postal/Zip Code                                   | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Preferred Delivery Method                         | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Registered Address                                | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Search Guide                                      | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| See Also  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name                               | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                                    | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                                    | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Teletex Terminal Identifier                       | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Telex Number                                      | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| User Password                                     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| X.121 Address                                     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |

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| Object Class   | Source | Implementation |      | Data Population |      | Security |            |        |               |                |      |
|--|--------|----------------|------|-----------------|------|----------|------------|--------|---------------|----------------|------|
| Attribute  |        | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA<br>Mgr | OU Mbr | Gov't<br>User | Auth.<br>Anon. | Anon |
| Administrative Directory<br>Mgmt Domain Name         | NADF   | x              |      |                 | x    |          |            |        |               |                |      |
| Last Modified Time                                   | NADF   | x              |      |                 | x    |          |            |        |               |                |      |
| Multi Media Information                              | NADF   | x              |      |                 | x    |          |            |        |               |                |      |
| NADF Search Guide                                    | NADF   | x              |      |                 | x    |          |            |        |               |                |      |
| Supported Application<br>Context                     | NADF   | x              |      |                 | x    |          |            |        |               |                |      |
| <b>Alternate Spelling Plain<br/>Language Address</b> |        | <b>DMS x</b>   |      |                 |      |          |            |        |               |                |      |
| Community  | DMS    | x              |      |                 | x    |          |            |        |               |                |      |
| Effective Date                                       | DMS    | x              |      |                 | x    |          |            |        |               |                |      |
| Expiration Date                                      | DMS    | x              |      |                 | x    |          |            |        |               |                |      |
| Nationality  | DMS    | x              |      |                 | x    |          |            |        |               |                |      |
| Plain Language Address<br>Name                       | DMS    | x              |      |                 | x    |          |            |        |               |                |      |
| Plain Language Address<br>Replace                    | DMS    | x              |      |                 | x    |          |            |        |               |                |      |
| Primary Spelling                                     | DMS    | x              |      |                 | x    |          |            |        |               |                |      |
| Publish  | DMS    | x              |      |                 | x    |          |            |        |               |                |      |
| Remarks  | DMS    | x              |      |                 | x    |          |            |        |               |                |      |
| Service or Agency                                    | DMS    | x              |      |                 | x    |          |            |        |               |                |      |
| <b>ANSI Organization Object</b>                      |        | <b>NADF x</b>  |      |                 |      |          |            |        |               |                |      |
| ANSI Organization Numeric<br>Code                    | NADF   | x              |      |                 | x    |          |            |        |               |                |      |
| <b>Canadian Province/Territory</b>                   |        | <b>NADF x</b>  |      |                 |      |          |            |        |               |                |      |
| Description  | X.520  | x              |      |                 | x    |          |            |        |               |                |      |
| Last Modified Time                                   | X.520  | x              |      |                 | x    |          |            |        |               |                |      |
| Locality Name  | X.520  | x              |      |                 | x    |          |            |        |               |                |      |
| Multi Media Information                              | X.520  | x              |      |                 | x    |          |            |        |               |                |      |
| NADF Search Guide                                    | X.520  | x              |      |                 | x    |          |            |        |               |                |      |
| Search Guide   | X.520  | x              |      |                 | x    |          |            |        |               |                |      |
| See Also   | NADF   | x              |      |                 | x    |          |            |        |               |                |      |
| State/Province Name                                  | NADF   | x              |      |                 | x    |          |            |        |               |                |      |
| Street Address                                       | NADF   | x              |      |                 | x    |          |            |        |               |                |      |
| Supported Application<br>Context                     | X.520  | x              |      |                 | x    |          |            |        |               |                |      |
| <b>Certification Authority</b>                       |        | <b>X.521 x</b> |      |                 |      |          |            |        |               |                |      |
| Common Name  | X.520  | x              |      |                 | x    |          |            |        |               |                |      |



| Object Class                           | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                              |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Description                            | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Destination Indicator                  | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Fax number                             | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                          | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Unit Name                 | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Physical Delivery Office Name          | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| PO Box                                 | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Address                         | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Postal/Zip Code                        | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Preferred Delivery Method              | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Preferred Delivery Method              | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Registered Address                     | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Role Occupant                          | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                               | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name                    | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                         | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                         | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Teletex Terminal Identifier            | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Telex Number                           | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| X.121 Address                          | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Algorithms Supported                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Algorithms Supported                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| April User Key Management Signature    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| August User Key Management Signature   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                       | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                       | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| December User Key Management Signature | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| February User Key Management Signature | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| January User Key Management Signature  | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| July User Key Management Signature     | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| June User Key Management               | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |



| Object Class   | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute  |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Signature  |         |                |      |                 |      |          |         |        |            |             |      |
| March User Key Management Signature                  | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| May User Key Management Signature                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Certificate Revocation List                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Certificate                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate  | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic Key Revocation List                           | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| November User Key Management Signature               | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| October User Key Management Signature                | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS Certificate Authority Signature Certificate     | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS Certificate Revocation List                     | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS Key Management Certificate                      | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS Key Management Digital Signature Certificate    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate                      | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| September User Key Management Signature              | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Certificate                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Digital Signature Certificate | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Suite A User Signature Certificate                   | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Alias Pointer  | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Alternate Recipient                                  | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Back Pointers  | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Effective Date                                       | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Expiration Date                                      | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| List Pointer   | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses with Capabilities | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Minimize   | DMS     |                | x    |                 | x    |          |         |        |            |             |      |
| Nationality  | DMS     |                | x    |                 | x    |          |         |        |            |             |      |

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| Object Class  | Source         | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|----------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute   |                | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Preferred Delivery  | DMS            |                | x    |                 | x    |          |         |        |            |             |      |
| Preferred Delivery  | DMS            |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length                              | X.402          |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS  | X.402          |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Message Store   | X.402          |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Message Store DN  | X.402          |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses                          | X.402          |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery Methods                              | X.402          |                | x    |                 | x    |          |         |        |            |             |      |
| MHS Undeliverable EITS                                      | X.402          |                | x    |                 | x    |          |         |        |            |             |      |
| MHS-Deliverable Content Types                               | X.402          |                | x    |                 | x    |          |         |        |            |             |      |
| RFC822 Mailbox  | COS INE        |                | x    |                 | x    |          |         |        |            |             |      |
| <b>Certification Authority Mosaic</b>                       | <b>SDN.702</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Mosaic Certificate Revocation List                          | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate         | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic Key Revocation List                                  | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                           | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Certification Authority SDNS</b>                         | <b>SDN.702</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| SDNS Certificate Authority Signature Certificate            | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS Certificate Revocation List                            | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS Key Management Digital Signature Certificate           | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Collective Address Designator Plain Language Address</b> | <b>DMS</b>     | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Associated Mail List  | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Cognizant Authority   | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Community   | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date  | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Entry Classification  | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date   | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Nationality   | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Plain Language Address Name                                 | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Publish   | DMS            | x              |      |                 | x    |          |         |        |            |             |      |





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| Object Class  | Source         | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|----------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute   |                | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Recap Due Date                                      | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Remarks   | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Indicator Info                              | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Service or Agency                                   | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Computer</b>                                     | <b>DMS</b>     | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Common Name   | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Description   | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Organization name                                   | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                            | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Owner   | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| See Also  | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Serial Number                                       | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                                      | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                                     | DMS            | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Directory System Agent Mosaic</b>                | <b>SDN.702</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Common Name   | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Description   | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Knowledge Information                               | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                                       | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                                   | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                            | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Presentation Address                                | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| See Also  | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context                       | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                   | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Directory System Agent SDNS</b>                  | <b>SDN.702</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Common Name   | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Description   | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Knowledge Information                               | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                                       | X.520          | x              |      |                 | x    |          |         |        |            |             |      |



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| Object Class  | Source   | Implementation  |      | Data Population |      | Security |         |        |            |             |      |
|---|----------|-----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute   |          | Mand.           | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Organization Name                                   | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                            | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Presentation Address                                | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| See Also  | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context                       | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate | SDN.702  | x               |      |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate                     | SDN.702  | x               |      |                 | x    |          |         |        |            |             |      |
| <b>Distribution List</b>                            |          | <b>X.4xx</b>    |      | <b>x</b>        |      |          |         |        |            |             |      |
| Common Name   | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| Description   | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Types                       | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS                                | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable List Members                        | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| MHS Distribution List Permissions                   | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses                  | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery Methods                      | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| Organization  | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                            | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| Owner   | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| See Also  | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| Distribution List Dynamic Extensions                | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| Distribution List Dynamic Members                   | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| Distribution List Errors to Name                    | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| Distribution List Policy                            | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| <b>Distinguished Name Table Entry</b>               |          | <b>X.4xx</b>    |      | <b>x</b>        |      |          |         |        |            |             |      |
| Description   | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| Distinguished Name Table Key                        | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| <b>DNS Domain</b>                                   |          | <b>RFC 1148</b> |      | <b>x</b>        |      |          |         |        |            |             |      |
| Associated Name                                     | RFC 1274 | x               |      |                 | x    |          |         |        |            |             |      |
| Domain Component                                    | RFC 1274 | x               |      |                 | x    |          |         |        |            |             |      |



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| Object Class                         | Source   | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--------------------------------------|----------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                            |          | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Business Category                    | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Description                          | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Destination Indicator                | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| FAX Number                           | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| ISDN Number                          | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                        | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                    | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Physical Delivery Office Name        | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Post Office Box                      | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Address                       | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Code                          | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Preferred Delivery Method            | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Registered Address                   | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Search Guide                         | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                             | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name                  | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                       | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                       | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Telephone Number                     | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Teletex Terminal Identifier          | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Telex Number                         | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| User Password                        | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| X.121 Address                        | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| DNS Record                           | RFC 1148 | x              |      |                 | x    |          |         |        |            |             |      |
| <b>DMS Mail List</b>                 |          | <b>DMS</b>     |      |                 |      |          |         |        |            |             |      |
|                                      |          | x              |      |                 |      |          |         |        |            |             |      |
| Algorithms Supported                 | SDN.702  | x              |      |                 | x    |          |         |        |            |             |      |
| Algorithms Supported                 | SDN.702  | x              |      |                 | x    |          |         |        |            |             |      |
| April User Key Management Signature  | SDN.702  | x              |      |                 | x    |          |         |        |            |             |      |
| August User Key Management Signature | SDN.702  | x              |      |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                     | SDN.702  | x              |      |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                     | SDN.702  | x              |      |                 | x    |          |         |        |            |             |      |

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| Object Class   | Source  | Implementation |      | Data Population |      | Security |            |        |               |                |      |
|--|---------|----------------|------|-----------------|------|----------|------------|--------|---------------|----------------|------|
| Attribute  |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA<br>Mgr | OU Mbr | Gov't<br>User | Auth.<br>Anon. | Anon |
| December User Key Management Signature               | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| February User Key Management Signature               | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| January User Key Management Signature                | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| July User Key Management Signature                   | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| June User Key Management Signature                   | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Mail List Administrator                              | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Mail List Exempted Address Processor                 | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Mail List Identifier                                 | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Mail List Membership                                 | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Mail List Receipt Policy                             | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| March User Key Management Signature                  | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| May User Key Management Signature                    | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Mosaic Key Management Certificate                    | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Mosaic Key Management Digital Signature Certificate  | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Mosaic User Signature Certificate                    | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| November User Key Management Signature               | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| October User Key Management Signature                | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| SDNS Key Management Certificate                      | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| SDNS Key Management Digital Signature Certificate    | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| SDNS User Signature Certificate                      | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| September User Key Management Signature              | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| SNS Guard Gateway                                    | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| SNS Guard Gateway                                    | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Suite A Key Management Certificate                   | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Suite A Key Management Digital Signature Certificate | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Suite A User Signature Certificate                   | SDN.702 | x              |      |                 | x    |          |            |        |               |                |      |
| Common Name  | X.520   | x              |      |                 | x    |          |            |        |               |                |      |
| Alias Pointer  | DMS     | x              |      |                 | x    |          |            |        |               |                |      |
| Alternate Recipient                                  | DMS     | x              |      |                 | x    |          |            |        |               |                |      |
| Description  | DMS     | x              |      |                 | x    |          |            |        |               |                |      |



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| Object Class                             | Source   | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|----------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                                |          | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Effective Date                           | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                          | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| List Pointer                             | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Mail List Type                           | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Distribution List Submit Permissions | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Non-delivery Policy                      | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses       | X.402    | x              |      |                 | x    |          |         |        |            |             |      |
| RFC822 Mailbox                           | COSINE   | x              |      |                 | x    |          |         |        |            |             |      |
| Domain                                   | RFC 1274 | x              |      |                 |      |          |         |        |            |             |      |
| Associated Name                          | RFC 1274 | x              |      |                 | x    |          |         |        |            |             |      |
| Domain Component                         | RFC 1274 | x              |      |                 | x    |          |         |        |            |             |      |
| Business Category                        | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Description                              | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Destination Indicator                    | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| FAX Number                               | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| ISDN Number                              | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                            | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                        | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Physical Delivery Office Name            | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Post Office Box                          | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Address                           | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Code                              | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Preferred Delivery Method                | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Registered Address                       | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Search Guide                             | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                                 | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name                      | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                           | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Telephone Number                         | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Teletex Terminal Identifier              | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Telex Number                             | X.520    | x              |      |                 | x    |          |         |        |            |             |      |



| Object Class                            | Source   | Implementation  |      | Data Population |      | Security |         |        |            |             |      |
|---|----------|-----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                               |          | Mand.           | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| User Password                           | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| X.121 Address                           | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| <b>Domain Related Object</b>            |          | <b>RFC 1274</b> |      | <b>x</b>        |      |          |         |        |            |             |      |
| Associated Domain                       | RFC 1274 | x               |      |                 | x    |          |         |        |            |             |      |
| <b>FIPS 55 Object</b>                   |          | <b>NADF</b>     |      | <b>x</b>        |      |          |         |        |            |             |      |
| FIPS Place Numeric Name                 | NADF     | x               |      |                 | x    |          |         |        |            |             |      |
| State/Province Name                     | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| <b>Friendly Country</b>                 |          | <b>RFC 1274</b> |      | <b>x</b>        |      |          |         |        |            |             |      |
| Country Name                            | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Description                             | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Search Guide                            | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Friendly Country Name                   | RFC 1274 | x               |      |                 | x    |          |         |        |            |             |      |
| <b>EDI Message Store</b>                |          | <b>X.435</b>    |      | <b>x</b>        |      |          |         |        |            |             |      |
| Common Name                             | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Description                             | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Locality Name                           | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Organization Name                       | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Presentation Address                    | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| See Also                                | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context           | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Owner                                   | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length          | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Types           | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS                    | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses      | X.402    | x               |      |                 | x    |          |         |        |            |             |      |
| EDI Capabilities                        | X.435    | x               |      |                 | x    |          |         |        |            |             |      |
| <b>Electronic Data Interchange User</b> |          | <b>X.435</b>    |      | <b>x</b>        |      |          |         |        |            |             |      |
| EDI Capabilities                        | X.435    | x               |      |                 | x    |          |         |        |            |             |      |
| EDI Name                                | X.435    | x               |      |                 | x    |          |         |        |            |             |      |
| EDI Routing Address                     | X.435    | x               |      |                 | x    |          |         |        |            |             |      |



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| Object Class                      | Source | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|-----------------------------------|--------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                         |        | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| <b>EDI User Agent</b> X.435 x     |        |                |      |                 |      |          |         |        |            |             |      |
| Common Name                       | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Description                       | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                 | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name          | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Presentation Address              | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                          | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Description                       | X.402  | x              |      |                 | x    |          |         |        |            |             |      |
| EDI Capabilities                  | X.402  | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Supported Automatic Actions   | X.402  | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Supported Content Types       | X.402  | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Supported Optional Attributes | X.402  | x              |      |                 | x    |          |         |        |            |             |      |
| Owner                             | X.435  | x              |      |                 | x    |          |         |        |            |             |      |
| <b>List User Agent</b> X.4xx x    |        |                |      |                 |      |          |         |        |            |             |      |
| Access Management Domain          | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Attributes     | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Point          | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Distribution List Name            | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Filtered Redirect                 | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Mandatory Redirect                | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length    | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Types     | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITs              | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Message Store Name            | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery Methods    | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| MTA Information                   | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Non Delivery Information          | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Failure Action            | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |



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| Object Class  | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute   |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Routing Filter                                      | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| Subtree Information                                 | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| Supporting MTA                                      | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| User Agent Name                                     | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Mail List SDN.702 x</b>                          |         |                |      |                 |      |          |         |        |            |             |      |
| MHS Deliverable Content Length                      | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Types                       | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS                                | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Distribution List Submit Permissions            | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Message Store                                   | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses                  | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery Methods                      | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| Algorithms Supported                                | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mail List Administrator                             | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mail List Exempted Address Processor                | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mail List Identifier                                | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mail List Membership                                | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mail List Receipt Policy                            | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Certificate                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Common Name   | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Alternate Recipients                                | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Backpointers  | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Non-delivery Policy                                 | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MSP User Mosaic SDN.702 x</b>                    |         |                |      |                 |      |          |         |        |            |             |      |
| Algorithms Supported                                | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |





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| Object Class  | Source     | Implementation |          | Data Population |      | Security |         |        |            |             |      |
|---|------------|----------------|----------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute   |            | Mand.          | Opt.     | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Mosaic Key Management Certificate                   | SDN.702    | x              |          |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate | SDN.702    | x              |          |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                   | SDN.702    | x              |          |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                   | SDN.702    | x              |          |                 | x    |          |         |        |            |             |      |
| <b>Mail List Agent</b>                              | <b>DMS</b> | <b>x</b>       |          |                 |      |          |         |        |            |             |      |
| Common Name   | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Description   | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Locality Name                                       | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Organization Name                                   | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                            | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Presentation Address                                | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| See Also  | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Supported Application Context                       | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                   | SDN.702    | x              |          |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate                     | SDN.702    | x              |          |                 | x    |          |         |        |            |             |      |
| Effective Date                                      | DMS        | x              |          |                 | x    |          |         |        |            |             |      |
| Expiration Date                                     | DMS        | x              |          |                 | x    |          |         |        |            |             |      |
| <b>Messaging Organizational Unit</b>                | <b>DMS</b> |                | <b>x</b> |                 |      |          |         |        |            |             |      |
| Business Category                                   | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Description   | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Destination Indicator                               | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Fax number  | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Locality Name                                       | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Organization Unit Name                              | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Physical Delivery Office Name                       | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| PO Box  | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Postal Address                                      | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Postal/Zip Code                                     | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Preferred Delivery Method                           | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Registered Address                                  | X.520      | x              |          |                 | x    |          |         |        |            |             |      |
| Search Guide  | X.520      | x              |          |                 | x    |          |         |        |            |             |      |

| Object Class  | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute   |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| See Also  | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name                                 | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                                      | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                                      | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Teletex Terminal Identifier                         | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Telex Number  | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| User Password                                       | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| X.121 Address                                       | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Algorithms Supported                                | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Algorithms Supported                                | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| April User Key Management Signature                 | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| August User Key Management Signature                | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| December User Key Management Signature              | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| February User Key Management Signature              | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| January User Key Management Signature               | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| July User Key Management Signature                  | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| June User Key Management Signature                  | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| March User Key Management Signature                 | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| May User Key Management Signature                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Certificate                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| November User Key Management Signature              | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| October User Key Management Signature               | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS Key Management Certificate                     | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS Key Management Digital Signature Certificate   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate                     | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| September User Key Management Signature             | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |



| Object Class   | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute  |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| SNS Guard Gateway                                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Certificate                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Digital Signature Certificate | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Suite A User Signature Certificate                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Alias Pointer  | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Alternate Recipient                                  | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Associated Plain Language Address                    | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                                       | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                                      | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| List Pointer   | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses with Capabilities | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Minimize   | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Nationality  | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Preferred Delivery                                   | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length                       | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS                                 | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Message Store DN                                 | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses                   | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Undeliverable EITS                               | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS-Deliverable Content Types                        | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| RFC822 Mailbox                                       | COSINE  | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MHS Country</b>                                   |         | <b>X.4xx</b>   |      | <b>x</b>        |      |          |         |        |            |             |      |
| Country Name   | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Description  | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Search Guide   | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Numeric Country Name                             | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MHS Domain Defined Attributes</b>                 |         | <b>X.4xx</b>   |      | <b>x</b>        |      |          |         |        |            |             |      |
| MHS DDA Type   | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS DDA Value  | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |



| Object Class                       | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|------------------------------------|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                          |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| <b>MHS Distribution List</b>       |         | <b>X.402</b>   |      | <b>x</b>        |      |          |         |        |            |             |      |
| Common Name                        | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| Description                        | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Distribution List Permissions  | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Types      | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS               | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable List Members       | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery Methods     | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| Organization                       | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name           | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| Owner                              | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                           | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MHS Message Store</b>           |         | <b>X.402</b>   |      | <b>x</b>        |      |          |         |        |            |             |      |
| Common Name                        | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Description                        | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                      | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                  | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name           | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Presentation Address               | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                           | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context      | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Owner                              | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Supported Automatic Actions    | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Supported Content Types        | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Supported Optional Attributes  | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                     | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Expiration Date                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate  | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |



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| Object Class                           | Source       | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|--------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                              |              | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| <b>MHS Message Transfer Agent</b>      | <b>X.402</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Common Name                            | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Description                            | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                          | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                      | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name               | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Presentation Address                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                               | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context          | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length         | X.402        | x              |      |                 | x    |          |         |        |            |             |      |
| Owner                                  | X.402        | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                         | SDN.702      |                | x    |                 | x    |          |         |        |            |             |      |
| Expiration Date                        | SDN.702      |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate      | SDN.702      |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate        | SDN.702      |                | x    |                 | x    |          |         |        |            |             |      |
| <b>MHS Named Object</b>                | <b>X.4xx</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| MHS Common Name                        | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MHS Numeric User Identification</b> | <b>X.4xx</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| MHS Numeric User Identification Name   | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MHS Organization</b>                | <b>X.4xx</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| MHS Organization                       | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MHS Organization Unit</b>           | <b>X.4xx</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| MHS Organization Unit                  | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MHS Person</b>                      | <b>X.4xx</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| MHS Generation Qualifier               | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Given Name                         | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Initials                           | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Surname                            | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MHS Terminal ID</b>                 | <b>X.4xx</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| MHS Terminal ID Name                   | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MHS User Agent</b>                  | <b>X.402</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |



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| Object Class                           | Source         | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|----------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                              |                | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Common Name                            | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Presentation Address                   | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Description                            | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                          | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                      | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name               | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                               | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context          | X.520          | x              |      |                 | x    |          |         |        |            |             |      |
| Owner                                  | X.402          | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length         | X.402          | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Types          | X.402          | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITS                   | X.402          | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses     | X.402          | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MHS X.121</b>                       | <b>X.4xx</b>   | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| MHS X.121 Address                      | X.4xx          | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MSP User SDNS</b>                   | <b>SDN.702</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Algorithms Supported                   | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| April User Key Management Signature    | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| August User Key Management Signature   | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                       | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| December User Key Management Signature | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| February User Key Management Signature | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| January User Key Management Signature  | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| July User Key Management Signature     | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| June User Key Management Signature     | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| March User Key Management Signature    | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| May User Key Management Signature      | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| November User Key Management Signature | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| October User Key Management Signature  | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS Key Management Certificate        | SDN.702        | x              |      |                 | x    |          |         |        |            |             |      |

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| Object Class   | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute  |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| SDNS Key Management Digital Signature Certificate    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate                      | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| September User Key Management Signature              | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Certificate                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Digital Signature Certificate | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Suite A User Signature Certificate                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| MTA X.4xx x  |         |                |      |                 |      |          |         |        |            |             |      |
| Common Name  | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Description  | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name  | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                                    | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                             | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Presentation Address                                 | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| See Also   | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context                        | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length                       | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| Owner  | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                                       | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Expiration Date                                      | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                    | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate                      | SDN.702 |                | x    |                 | x    |          |         |        |            |             |      |
| Bilateral Table                                      | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| Calling Presentation Address                         | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| Calling Selector Validity                            | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| Global Domain ID                                     | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| Initiating RTS Credentials                           | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| Initiator Authentication Requirements                | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| Initiator P1 Mode                                    | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| Initiator Pulling Authentication Requirements        | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |



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| Object Class                                  | Source       | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|--------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                                     |              | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Message Transfer Agent Name                   | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Polled MTAs                                   | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Responder Authentication Requirements         | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Responder P1 Mode                             | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Responder Pulling Authentication Requirements | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Responding RTS Credentials                    | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Transport Community                           | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MTA Application Process</b>                | <b>X.4xx</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Common Name                                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Description                                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                                 | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                      | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                                      | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Access Management Domain                      | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Access Units Used                             | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Global Domain ID                              | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Local Access Unit                             | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| MTA Will Route                                | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Tree List                             | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>MTA Bilateral Table Entry</b>              | <b>X.4xx</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Common Name                                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Description                                   | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                                 | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                             | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                      | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Presentation Address                          | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                                      | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context                 | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length                | X.402        | x              |      |                 | x    |          |         |        |            |             |      |
| Owner   | X.402        | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                                | SDN.702      |                | x    |                 | x    |          |         |        |            |             |      |



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| Object Class                                  | Source     | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                                     |            | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Expiration Date                               | SDN.702    |                | x    |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate             | SDN.702    |                | x    |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate               | SDN.702    |                | x    |                 | x    |          |         |        |            |             |      |
| Bilateral Table                               | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Calling Presentation Address                  | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Calling Selector Validity                     | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Distinguished Name Table Key                  | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Global Domain ID                              | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Initiating RTS Credentials                    | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Initiator Authentication Requirements         | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Initiator P1 Mode                             | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Initiator Pulling Authentication Requirements | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Message Transfer Agent Name                   | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Polled MTAs                                   | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Responder Authentication Requirements         | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Responder P1 Mode                             | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Responder Pulling Authentication Requirements | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Responding RTS Credentials                    | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| Transport Community                           | X.4xx      | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Multi-function Interpreter</b>             | <b>DMS</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Common Name                                   | X.520      | x              |      |                 | x    |          |         |        |            |             |      |
| Description                                   | X.520      | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                                 | X.520      | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                             | X.520      | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                      | X.520      | x              |      |                 | x    |          |         |        |            |             |      |
| Presentation Address                          | X.520      | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                                      | X.520      | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context                 | X.520      | x              |      |                 | x    |          |         |        |            |             |      |
| Algorithms Supported                          | SDN.702    | x              |      |                 | x    |          |         |        |            |             |      |
| Algorithms Supported                          | SDN.702    | x              |      |                 | x    |          |         |        |            |             |      |

Detailed Design

FINAL

| Object Class   | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute  |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| April User Key Management Signature                  | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| August User Key Management Signature                 | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                                     | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Auxiliary Vector                                     | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| December User Key Management Signature               | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| February User Key Management Signature               | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| January User Key Management Signature                | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| July User Key Management Signature                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| June User Key Management Signature                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| March User Key Management Signature                  | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| May User Key Management Signature                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Certificate                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature Certificate  | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| November User Key Management Signature               | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| October User Key Management Signature                | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS Key Management Certificate                      | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS Key Management Digital Signature Certificate    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate                      | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate                      | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| September User Key Management Signature              | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| SNS Guard Gateway                                    | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Certificate                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Suite A Key Management Digital Signature Certificate | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| Suite A User Signature Certificate                   | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Originator/Recipient Addresses                   | X.402   | x              |      |                 | x    |          |         |        |            |             |      |
| RFC822 Mailbox                                       | COSINE  | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                                       | DMS     | x              |      |                 | x    |          |         |        |            |             |      |



| Object Class                                 | Source | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|--------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                                    |        | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Expiration Date                              | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Host   | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| <b>NADF Application Entity</b>               |        | <b>NADF</b>    |      | <b>x</b>        |      |          |         |        |            |             |      |
| Common Name                                  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Description                                  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                                | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                            | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Presentation Address                         | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                                     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context                | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context                | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| <b>NADF Object</b>                           |        | <b>NADF</b>    |      | <b>x</b>        |      | <b>x</b> |         |        |            |             |      |
| Last Modified Time                           | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| Multi Media Information                      | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| NADF Search Guide                            | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context                | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| <b>National Object</b>                       |        | <b>NADF</b>    |      | <b>x</b>        |      |          |         |        |            |             |      |
| Country Name                                 | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| <b>OR Address Component</b>                  |        | <b>X.4xx</b>   |      | <b>x</b>        |      |          |         |        |            |             |      |
| Access Management Domain                     | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Attributes                | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Point                     | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| MTA Information                              | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Non Delivery Information                     | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Failure Action                       | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Filter                               | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Subtree Information                          | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Organizational Plain Language Address</b> |        | <b>DMS</b>     |      | <b>x</b>        |      |          |         |        |            |             |      |
| Associated Organization                      | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Community                                    | DMS    | x              |      |                 | x    |          |         |        |            |             |      |



| Object Class                                   | Source          | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|-----------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                                      |                 | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Country Name                                   | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Department of Defense Activity Accounting Code | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Dual Route                                     | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                                 | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Entry Classification                           | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                                | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                                  | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Long Title                                     | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Minimize                                       | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Minimize Override                              | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Name Classification                            | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Nationality                                    | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Plain Language Address Name                    | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Publish  | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Remarks  | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Indicator                              | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Indicator Info                         | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Section  | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Service or Agency                              | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name                            | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| TARE   | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Pilot Directory System Agent</b>            | <b>RFC 1274</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Common Name                                    | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Description                                    | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Knowledge Information                          | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                                  | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                              | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Organizational Unit Name                       | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Presentation Address                           | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                                       | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context                  | X.520           | x              |      |                 | x    |          |         |        |            |             |      |



| Object Class                             | Source          | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|-----------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                                |                 | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Directory System Agent Quality           | RFC 1274        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Pilot Object</b>                      | <b>RFC 1274</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Audio                                    | RFC 1274        | x              |      |                 | x    |          |         |        |            |             |      |
| DIT Redirect                             | RFC 1274        | x              |      |                 | x    |          |         |        |            |             |      |
| Information                              | RFC 1274        | x              |      |                 | x    |          |         |        |            |             |      |
| Last Modified By                         | RFC 1274        | x              |      |                 | x    |          |         |        |            |             |      |
| Last Modified Time                       | RFC 1274        | x              |      |                 | x    |          |         |        |            |             |      |
| Manager                                  | RFC 1274        | x              |      |                 | x    |          |         |        |            |             |      |
| Photo                                    | RFC 1274        | x              |      |                 | x    |          |         |        |            |             |      |
| Unique Identifier                        | RFC 1274        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Plain Language Address</b>            | <b>DMS</b>      | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Community                                | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                           | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                          | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Nationality                              | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Plain Language Address Name              | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Publish                                  | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Remarks                                  | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Service or Agency                        | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Plain Language Address Collective</b> | <b>DMS</b>      | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Action Addressees                        | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Allowable Originators                    | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Associated Mail List                     | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Cognizant Authority                      | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Community                                | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Description                              | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                           | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Entry Classification                     | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                          | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Information Addressees                   | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Last Recap Date                          | DMS             | x              |      |                 | x    |          |         |        |            |             |      |



Detailed Design

FINAL

| Object Class                       | Source   | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|------------------------------------|----------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                          |          | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Nationality                        | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Plain Language Address Name        | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Publish                            | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Recap Due Date                     | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Remarks                            | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Service or Agency                  | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Plain Language Address Data        |          | DMS            | x    |                 |      |          |         |        |            |             |      |
| Community                          | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Description                        | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                     | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                    | DMS      | x              |      |                 | x    |          |         |        |            |             |      |
| PRMD                               |          | X.4xx          | x    |                 |      |          |         |        |            |             |      |
| PRMD Name                          | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Provider Object                    |          | NADF           | x    |                 |      |          |         |        |            |             |      |
| Reciprocal Naming Link             | NADF     | x              |      |                 | x    |          |         |        |            |             |      |
| Public Object                      |          | NADF           | x    |                 |      |          |         |        |            |             |      |
| Naming Link                        | NADF     | x              |      |                 | x    |          |         |        |            |             |      |
| Restricted Subtree                 |          | X.4xx          | x    |                 |      |          |         |        |            |             |      |
| Subtree Deliverable Content Length | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Subtree Deliverable Content Types  | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Subtree Deliverable EITs           | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| RFC 822 Local Part                 |          | RFC 1274       | x    |                 |      |          |         |        |            |             |      |
| Associated Name                    | RFC 1274 | x              |      |                 | x    |          |         |        |            |             |      |
| Domain Component                   | RFC 1274 | x              |      |                 | x    |          |         |        |            |             |      |
| Business Category                  | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Common Name                        | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Description                        | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Description                        | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Destination Indicator              | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Destination Indicator              | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| FAX Number                         | X.520    | x              |      |                 | x    |          |         |        |            |             |      |



| Object Class                  | Source | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|-------------------------------|--------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                     |        | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| FAX Number                    | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| ISDN Number                   | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| ISDN Number                   | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                 | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name             | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Physical Delivery Office Name | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Physical Delivery Office Name | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Post Office Box               | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Post Office Box               | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Address                | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Address                | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Code                   | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Code                   | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Preferred Delivery Method     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Preferred Delivery Method     | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Registered Address            | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Registered Address            | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Search Guide                  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                      | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                      | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name           | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Surname                       | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Telephone Number              | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Telephone Number              | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Teletex Terminal Identifier   | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Teletex Terminal Identifier   | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Telex Number                  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Telex Number                  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |



| Object Class                            | Source          | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|-----------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                               |                 | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| User Password                           | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| X.121 Address                           | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| X.121 Address                           | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Release Authority</b>                | <b>DMS</b>      | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Effective Date                          | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                         | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic Key Management Digital Signature | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Mosaic User Signature Certificate       | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| Release Authority Name                  | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| SDNS User Signature Certificate         | DMS             | x              |      |                 | x    |          |         |        |            |             |      |
| <b>RFC 822 to X.400 Mapping</b>         | <b>RFC 1148</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Associated Name                         | RFC 1274        | x              |      |                 | x    |          |         |        |            |             |      |
| Domain Component                        | RFC 1274        | x              |      |                 | x    |          |         |        |            |             |      |
| Business Category                       | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Description                             | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Destination Indicator                   | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| FAX Number                              | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| ISDN Number                             | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                           | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Organization Name                       | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Physical Delivery Office Name           | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Post Office Box                         | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Address                          | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Postal Code                             | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Preferred Delivery Method               | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Registered Address                      | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Search Guide                            | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                                | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name                     | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                          | X.520           | x              |      |                 | x    |          |         |        |            |             |      |
| Telephone Number                        | X.520           | x              |      |                 | x    |          |         |        |            |             |      |





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| Object Class                            | Source   | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|---|----------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                               |          | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Teletex Terminal Identifier             | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Telex Number                            | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| User Password                           | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| X.121 Address                           | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Associated OR Address                   | RFC 1148 | x              |      |                 | x    |          |         |        |            |             |      |
| Associated X.400 Gateway                | RFC 1148 | x              |      |                 | x    |          |         |        |            |             |      |
| Non Authoritative Associated OR Address | RFC 1148 | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Room X.521 x</b>                     |          |                |      |                 |      |          |         |        |            |             |      |
| Common Name                             | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Description                             | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Room Number                             | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                                | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| Telephone Number                        | X.520    | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Routed User Agent X.4xx x</b>        |          |                |      |                 |      |          |         |        |            |             |      |
| Access Management Domain                | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Attributes           | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Point                | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Filtered Redirect                       | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Mandatory Redirect                      | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length          | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Types           | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable EITs                    | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Message Store Name                  | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Preferred Delivery Methods          | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| MTA Information                         | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Non Delivery Information                | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Non Delivery Information                | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Failure Action                  | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Filter                          | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Subtree Information                     | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |
| Supporting MTA                          | X.4xx    | x              |      |                 | x    |          |         |        |            |             |      |



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| Object Class                                       | Source | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|--------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute  |        | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| User Agent Name                                    | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Routing Indicator</b>                           |        | <b>DMS x</b>   |      |                 |      |          |         |        |            |             |      |
| Community  | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Description  | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                                     | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                                    | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Language and Media Format                          | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| MHS Deliverable Content Length                     | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Nationality  | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Naval Communications Processing and Routing System | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Publish  | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Indicator                                  | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Indicator Classification                   | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Special Handling Designator                        | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Transmission Control Code                          | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Transmission Releases Code                         | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Routing Tree Root</b>                           |        | <b>X.4xx x</b> |      |                 |      |          |         |        |            |             |      |
| Access Management Domain                           | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Attributes                      | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Point                           | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Common Name  | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Manager  | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| MTA Information                                    | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Non Delivery Information                           | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Failure Action                             | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Routing Filter                                     | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| Subtree Information                                | X.4xx  | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Signals Intelligence Plain Language Address</b> |        | <b>DMS x</b>   |      |                 |      |          |         |        |            |             |      |
| Community  | DMS    | x              |      |                 | x    |          |         |        |            |             |      |
| Description  | DMS    | x              |      |                 | x    |          |         |        |            |             |      |



| Object Class                                       | Source | Implementation  |          | Data Population |      | Security |         |        |            |             |      |
|--|--------|-----------------|----------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute  |        | Mand.           | Opt.     | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Effective Date                                     | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Expiration Date                                    | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Locality Name                                      | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Nationality  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Publish  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Remarks  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Routing Indicator                                  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Short Title  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| SIGINT Address (SIGAD)                             | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| <b>Simple Security Object</b>                      |        | <b>RFC 1274</b> |          | <b>x</b>        |      |          |         |        |            |             |      |
| User Password                                      | X.520  | x               |          |                 | x    |          |         |        |            |             |      |
| <b>Special Intelligence Plain Language Address</b> |        | <b>DMS</b>      | <b>x</b> |                 |      |          |         |        |            |             |      |
| Community  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Description  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Effective Date                                     | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Expiration Date                                    | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Locality Name                                      | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Long Title   | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Nationality  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Publish  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Remarks  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Routing Indicator                                  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Short Title  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| SIGINT Address (SIGAD)                             | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| <b>SPOT Plain Language Address</b>                 |        | <b>DMS</b>      | <b>x</b> |                 |      |          |         |        |            |             |      |
| Action Addressees                                  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Additional Addressees                              | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Additional Second Party Addressees                 | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Allowable Originators                              | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Community  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |
| Description  | DMS    | x               |          |                 | x    |          |         |        |            |             |      |



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| Object Class                             | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                                |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Description                              | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                           | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                          | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Remarks                                  | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Second Party Addressees                  | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| SPOT                                     | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Strong Authentication User</b>        |         | <b>X.521</b>   |      | <b>x</b>        |      |          |         |        |            |             |      |
| User Certificate                         | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Strong Authenticate User Mosaic</b>   |         | <b>SDN.702</b> |      | <b>x</b>        |      |          |         |        |            |             |      |
| Mosaic User Signature Certificate        | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Strong Authenticate User SDNS</b>     |         | <b>SDN.702</b> |      | <b>x</b>        |      |          |         |        |            |             |      |
| SDNS User Signature Certificate          | SDN.702 | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Subtree</b>                           |         | <b>X.4xx</b>   |      | <b>x</b>        |      |          |         |        |            |             |      |
| Common Name                              | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| Manager                                  | X.4xx   | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Task Force Plain Language Address</b> |         | <b>DMS</b>     |      | <b>x</b>        |      |          |         |        |            |             |      |
| Associated Mail List                     | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Cognizant Authority                      | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Community                                | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                           | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Entry Classification                     | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                          | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Last Recap Date                          | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Nationality                              | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Plain Language Address Addressees        | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Plain Language Address Name              | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Publish                                  | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Recap Due Date                           | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Remarks                                  | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| Service or Agency                        | DMS     | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Table</b>                             |         | <b>X.4xx</b>   |      | <b>x</b>        |      |          |         |        |            |             |      |



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| Object Class                               | Source       | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|--|--------------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                                  |              | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Common Name                                | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Manager                                    | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Table Entry</b>                         | <b>X.4xx</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Description                                | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Telephone Number</b>                    | <b>DMS</b>   | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| DSN Facsimile Telephone Number             | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| DSN Secure Facsimile Telephone Number      | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| DSN Secure Telephone Number                | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| DSN Telephone Number                       | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Mobile Telephone Number                    | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Pager Telephone Number                     | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Secure Facsimile Telephone Number          | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Secure Telephone Number                    | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Tenant Plain Language Address</b>       | <b>DMS</b>   | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Community                                  | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Effective Date                             | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Entry Classification                       | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Expiration Date                            | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Host Organizational Plain Language Address | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Nationality                                | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Plain Language Address Name                | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Publish                                    | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Remarks                                    | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| Service or Agency                          | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| TARE                                       | DMS          | x              |      |                 | x    |          |         |        |            |             |      |
| <b>Text Table Entry</b>                    | <b>X.4xx</b> | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Description                                | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| Text Table Key                             | X.4xx        | x              |      |                 | x    |          |         |        |            |             |      |
| <b>US County or Equivalent</b>             | <b>NADF</b>  | <b>x</b>       |      |                 |      |          |         |        |            |             |      |
| Description                                | X.520        | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                              | X.520        | x              |      |                 | x    |          |         |        |            |             |      |



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| Object Class                  | Source | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|-------------------------------|--------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                     |        | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| Search Guide                  | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                      | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name           | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| FIPS County Numeric Code      | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| Last Modified Time            | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| Multi Media Information       | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| NADF Search Guide             | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| <b>US Place</b>               |        | <b>NADF x</b>  |      |                 |      |          |         |        |            |             |      |
| Description                   | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| FIPS Place Numeric Code       | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Last Modified Time            | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                 | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Multi Media Information       | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| NADF Search Guide             | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Search Guide                  | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                      | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name           | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| <b>US State or Equivalent</b> |        | <b>NADF x</b>  |      |                 |      |          |         |        |            |             |      |
| Description                   | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| FIPS State Alpha Code         | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| FIPS State Numeric Code       | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Last Modified Time            | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Locality Name                 | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| Multi Media Information       | X.520  | x              |      |                 | x    |          |         |        |            |             |      |
| NADF Search Guide             | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| Search Guide                  | NADF   | x              |      |                 | x    |          |         |        |            |             |      |
| See Also                      | NADF   | x              |      |                 | x    |          |         |        |            |             |      |



Detailed Design

FINAL

| Object Class                        | Source   | Implementation  |      | Data Population |      | Security |         |        |            |             |      |
|-------------------------------------|----------|-----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                           |          | Mand.           | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| State/Province Name                 | NADF     | x               |      |                 | x    |          |         |        |            |             |      |
| Street Address                      | NADF     | x               |      |                 | x    |          |         |        |            |             |      |
| Supported Application Context       | NADF     | x               |      |                 | x    |          |         |        |            |             |      |
| <b>X.400 to RFC 822 Mapping</b>     |          | <b>RFC 1148</b> |      | <b>x</b>        |      |          |         |        |            |             |      |
| Access Management Domain            | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Attributes       | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Point            | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| MTA Information                     | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| Non Delivery Information            | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| Routing Failure Action              | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| Routing Filter                      | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| Subtree Information                 | X.4xx    | x               |      |                 | x    |          |         |        |            |             |      |
| Associate Domain                    | RFC 1148 | x               |      |                 | x    |          |         |        |            |             |      |
| Non Authoritative Associated Domain | RFC 1148 | x               |      |                 | x    |          |         |        |            |             |      |
| <b>822 Node</b>                     |          | <b>RFC 822</b>  |      | <b>x</b>        |      |          |         |        |            |             |      |
| Associated Name                     | RFC 1274 | x               |      |                 | x    |          |         |        |            |             |      |
| Domain Component                    | RFC 1274 | x               |      |                 | x    |          |         |        |            |             |      |
| Business Category                   | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Description                         | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Destination Indicator               | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| FAX Number                          | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| ISDN Number                         | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Locality Name                       | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Organization Name                   | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Physical Delivery Office Name       | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Post Office Box                     | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Postal Address                      | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Postal Code                         | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Preferred Delivery Method           | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Registered Address                  | X.520    | x               |      |                 | x    |          |         |        |            |             |      |
| Search Guide                        | X.520    | x               |      |                 | x    |          |         |        |            |             |      |



| Object Class                  | Source  | Implementation |      | Data Population |      | Security |         |        |            |             |      |
|-------------------------------|---------|----------------|------|-----------------|------|----------|---------|--------|------------|-------------|------|
| Attribute                     |         | Mand.          | Opt. | Mand.           | Opt. | Self     | DSA Mgr | OU Mbr | Gov't User | Auth. Anon. | Anon |
| See Also                      | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| State/Province Name           | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Street Address                | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Telephone Number              | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Teletex Terminal Identifier   | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Telex Number                  | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| User Password                 | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| X.121 Address                 | X.520   | x              |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Attributes | RFC 822 | x              |      |                 | x    |          |         |        |            |             |      |
| Bad Address Search Point      | RFC 822 | x              |      |                 | x    |          |         |        |            |             |      |
| Subtree Information           | RFC 822 | x              |      |                 | x    |          |         |        |            |             |      |
| X.400 Domain                  | RFC 822 | x              |      |                 | x    |          |         |        |            |             |      |