Salutation Architecture Specification (Part-3)

Version 2.0c

June 01, 1999

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Preface

The Part-1 of the Salutation Architecture Specification, defines the general framework of the architecture and the details of the Salutation Manager Protocol.

The Part-2 defines the Salutation Personality Protocol and Attributes of Functional Units.

The Part-2 Addendum supplements the Part-2, and additionally defines the [Fax Data] Functional Unit.

The Part-3, this document, defines the criteria of the Conformance to the Salutation Architecture Specification, and provides supplementary information.

Revision

Version 2.0 (February 28, 1997)

Public release of the final version 2.0 specification part 3.

Version 2.0a, 2.0b

No change and no release

Version 2.0c (June 01, 1999)

No change and this release

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1. Conformance to the Salutation Architecture

1.1. Objective of the Conformance

To assure the interoperability among Salutation Products (Salutation Equipment, Applications, and services) which are produced from different manufacturers, the Salutation Products have to conform to the Salutation Architecture Conformance criteria.

1.2. Scope of the Conformance

Scope of the Salutation Architecture Conformance are as follows which are defined in the Specification;

- Salutation Manager Protocol/SLM-API
- Salutation Personality Protocol

And following are out of scope;

- SLM-TI
- Emulated Personality Protocol and Native Personality Protocol
- VendorEscape command and its parameters in each FU
- Product Quality
  1. Printing quality, Printing Attribute handling, etc. in [Print] FU
  2. Data Stream handling in the equipment, e.g. PDL, Structured Image data, etc. in [Print] FU
  3. Played or sent Voice quality in [Voice Message Storage] FU
  4. Standard G3 data handling in [Fax Data Send] FU or [Fax Data] FU
  5. Accuracy to detect equipment status/event, e.g. 'Toner near end', 'door open', 'Paper run out', etc. in each FU

1.3. Basic Conformance Rules

An implementation of Salutation Manager (SLM), Functional Units (FUs) and Client must support mandatory commands and attributes as defined in the Part-1 and Part-2 (including Part-2 Addendum) of the Specifications except otherwise specified in the Implementation Specific Conformance Rules.

If an implementation of SLM and FUs supports optional commands and attribute, it must support them as defined in the Part-1 and Part-2 (including Part-2 Addendum) of the Specifications except otherwise specified in the Implementation Specific Conformance Rules.

An implementation of Client should not send optional commands, which have been notified by an FU that they are not supported, and should not set or send optional parameters and data, which have been notified by the FU that they are not supported. In addition, if an implementation of Client sends job-request-type commands or SubscribeEvent command to an FU, which have been notified to be supported by the FU, it must support the Client FU as defined in the Part-2 (including Part-2 Addendum) of the Specifications.

1.4. Implementation Specific Conformance Rules

There are various forms of implementations of the Specifications, and it is not possible to make an exhaustive list of variations. However, the conformance criteria may vary among implementations, it is necessary to classify the implementations in order to articulate conformance criteria for each class. For example, SLM-API must be implemented in SLM to be made available as a stand alone implementation. On the other hand, SLM-API is not mandatory for an implementation of SLM combined with FU(s).

The following is a list of classification of implementations for which Implementation Specific Conformance Rules are specified.

1. Stand alone SLM
2. FU combined with SLM
3. Stand alone FU
4. Salutation Fax
5. Stand alone Client
6. Client combined with SLM

Implementations of multiple FUs, such as a product with two FUs combined with SLM, are considered as two independent implementations of FU combined with SLM. If only one of the two meets the Conformance Rules, the product can claim that the conformance criteria is met for the particular FU.

1.4.1. Stand alone SLM

Basic Conformance Rule applies. It is an option of an implementation whether or not it supports FU(s) which is located outside of the system where the SLM resides.

1.4.2. FU(s) combined with SLM

Basic Conformance Rule applies except that the implementation of SLM-API is not required.

1.4.3. Stand alone FU(s)

Basic Conformance Rule applies. It is an option of an implementation whether or not it supports SLM which is located outside of the system where the FU(s) resides.

1.4.4. Salutation Fax

An implementation of Salutation Fax Protocol without underlying SLM layer must support command

and response as defined in Part 2 Addendum of the Specification.

1.4.5. Stand alone Client

Basic Conformance Rule applies.

1.4.6. Client combined with SLM

Basic Conformance Rule applies except that the implementation of SLM-API is not required.

2. Implementation Guidelines

2.1. Implementing Vendor-Unique Functions

If vendors would like to add any vendor-unique functions to their implementation of client or Functional Unit (FU) supporting the Salutation Personality Protocol, the following guidelines should be followed.

Overall

The client must not send any vendor-unique commands or include any vendor-unique items in its messages to an FU unless the FU first indicates support through its capability attributes:

- Manufacturer, Product, and Version capability attributes (mandatory in all FUs) will help the client to determine if and what vendor-unique functions are supported by the FU.
- FUs may include vendor-unique capability attributes in Query Capability replies. Clients just ignore unrecognized capability attributes.

The FU may send vendor-unique commands/responses or include vendor-unique items in its messages to a client only in response to the client's use of vendor-unique extensions.

Additional commands / responses

A VendorEscape command must be used to initiate a message sequence. The first parameter of VendorEscape commands should be used as a command code.

The response to the VendorEscape command may be either another VendorEscape or an existing standard message.

Additional parameters in existing commands / responses

It is permissible to use an existing command / response message with additional vendor-unique parameter(s) instead of VendorEscape.

The tag number of the additional parameters should be greater than 255. (note: ASN.1 does not allow negative integer as tag number)

Additional attributes / dynamic status parameters

The ID of any vendor-unique attributes / dynamic status parameters should be negative.

Additional values in existing parameters of commands / responses, or attributes / dynamic status parameters

Any vendor-unique ENUMERATED/INTEGER values should be negative.

2.2. Other Recommendations

It is strongly recommended NOT to use "unspecified" compare function in a Query/SearchCapability request. It is planned to remove the support of "unspecified" compare function from a future version of the Salutation Architecture to support directory-based search operation.