X Session Management Protocol

X Consortium Standard

Mike Wexler, Kubota Pacific Computer, Inc

X Session Management Protocol: X Consortium Standard

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Abstract

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Chapter 3. Overview of the Protocol

[illegible]

[illegible]

[illegible] SESSION_MANAGER [illegible]

tcp/*hostname*:*portnumber*

[illegible]

local/*hostname*:*path*

[illegible]

decnet/*nodename*::*objname*

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] SESSION_MANAGER [illegible]

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Chapter 4. Data Types

[illegible]

[illegible]

[illegible]	[illegible]
[illegible]	`False` [illegible] `True`
[illegible]	`None` [illegible] `Errors` [illegible] `Any`
[illegible]	`Error` [illegible] `Normal`
[illegible]	`Global` [illegible] `Local` [illegible] `Both`
[illegible]	[illegible]
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Chapter 5. Protocol Setup and Message Format

[illegible] `ProtocolSetup` [illegible]

Chapter 6. Client Identification String

`RegisterClient` `RegisterClientReply`

Chapter 7. Protocol

[illegible]

```
RegisterClient [Client # SM]

  previous-ID: ARRAY8

  Valid Responses: RegisterClientReply

  Possible Errors: BadValue (CanContinue)
```

[illegible] *previous-ID* [illegible] *previous-ID* [illegible]

[illegible] *previous-ID* [illegible] `Register-Client` [illegible] `RegisterClient` [illegible] *previous-ID* [illegible]

```
RegisterClientReply [Client # SM]

  client-ID: ARRAY8
```

[illegible] *client-ID* [illegible] *previous-ID* [illegible] `RegisterClient` [illegible] *client-ID* [illegible] *previous-ID* [illegible] *client-ID* [illegible] *client-ID* [illegible]

[illegible] *previous-ID* [illegible] `RegisterClient` [illegible] `SaveYourself` [illegible] `RegisterClientReply` [illegible] `SaveYourself` [illegible]

```
SaveYourself [Client # SM]

  type: SAVE_TYPE
  shutdown: BOOL
  interact-style: INTERACT_STYLE
  fast: BOOL
```

```
Valid Responses:
  SetProperties
  DeleteProperties
  GetProperties
  SaveYourselfDone
  SaveYourselfPhase2Request
  InteractRequest
```

[illegible] SetProperties [illegible] *interact-style* [illegible] InteractRequest [illegible] SaveYourselfDone [illegible] SaveYourselfPhase2Request [illegible] SaveYourselfDone [illegible] SaveComplete [illegible] Die [illegible] ShutdownCancelled [illegible]

[illegible] *interact-style* [illegible] None [illegible] *interact-style* [illegible] Errors [illegible] *interact-style* [illegible] Any [illegible] InteractRequest [illegible] Interact [illegible] InteractRequest [illegible] Interact [illegible] InteractDone [illegible] InteractRequest [illegible] SaveYourself [illegible] SaveYourselfDone

[illegible] InteractRequest [illegible] Interact [illegible] InteractDone [illegible] SaveYourselfDone

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[illegible] SaveYourself [illegible] Local [illegible]

[illegible] RestartCommand [illegible] DiscardCommand [illegible]

[illegible] SaveYourself [illegible] Global [illegible]

[illegible] SaveYourself [illegible] Both [illegible] RestartCommand [illegible] DiscardCommand [illegible]

[illegible] SaveYourself [illegible] SaveYourself [illegible] SaveYourselfDone [illegible] ShutdownCancelled [illegible]

[illegible]

[illegible] SaveYourself [illegible] DiscardCommand [illegible]

[illegible] *shutdown* [illegible]

[illegible]

[illegible]

[illegible] SaveComplete [illegible] Die [illegible] ShutdownCancelled [illegible]

[illegible] *fast* [illegible] *fast* [illegible] True [illegible]

```
SaveYourselfPhase2 [Client ← SM]

  Valid Responses:
    SetProperties
    DeleteProperties
    GetProperties
    SaveYourselfDone
    InteractRequest
```

[illegible] SaveYourselfPhase2Request [illegible]

[illegible]

[illegible]

[illegible]

[illegible] `SetProperties` [illegible] `InteractRequest` [illegible] `SaveYourself-Done` [illegible]

```
SaveYourselfRequest [Client # SM]

  type: SAVE_TYPE
  shutdown: BOOL
  interact-style: INTERACT_STYLE
  fast: BOOL
  global: BOOL

  Valid Responses: SaveYourself
```

[illegible] `SaveYourself` [illegible]

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[illegible] *global* [illegible] `True` [illegible] `SaveYourself` [illegible] *global* [illegible] `False` [illegible] `SaveYourself` [illegible] `SaveYourselfRequest` [illegible]

```
InteractRequest [Client # SM]

  dialog-type: DIALOG_TYPE

  Valid Responses: Interact ShutdownCancelled

  Possible Errors: BadState (CanContinue)
```

[illegible] `InteractRequest` [illegible]

[illegible] Interact [illegible]

[illegible] *dialog-type* [illegible] Errors [illegible] Normal [illegible]

```
Interact [Client # SM]

  Valid Responses: InteractDone
```

[illegible] InteractDone [illegible]

[illegible]

[illegible] Interact [illegible] InteractDone [illegible] SaveYourselfDone

```
InteractDone [Client # SM]

  cancel-shutdown: BOOL

  Valid Responses: ShutdownCancelled
```

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[illegible] *cancel-shutdown* [illegible] True [illegible] *cancel-shutdown* [illegible] True [illegible] SaveYourself [illegible] True [illegible] Any [illegible] Errors [illegible] *interact-style* [illegible] *cancel-shutdown* [illegible] False [illegible]

```
SaveYourselfDone [Client # SM]

  success: BOOL

  Valid Responses:
    SaveComplete
    Die
    ShutdownCancelled
```

[illegible] SaveYourselfDone [illegible] SaveComplete [illegible] ShutdownCancelled [illegible] Die [illegible] SaveYourself [illegible] *success* [illegible] True [illegible] False [illegible]

[illegible]

[illegible] False [illegible] *success* [illegible] SaveYourselfDone [illegible]

```
SaveYourselfPhase2Request [Client # SM]

  Valid Responses:
    ShutdownCancelled
    SaveYourselfPhase2
```

[illegible]

```
Die [Client # SM]

  Valid Responses: ConnectionClosed
```

[illegible] Die [illegible] ConnectionClosed [illegible]

```
SaveComplete [Client # SM]

  Valid Responses:
```

[illegible] SaveComplete [illegible]

```
ShutdownCancelled [Client # SM]
```

[illegible] SaveYourselfDone [illegible] SaveYourselfDone [illegible] False [illegible] SaveYourselfDone [illegible]

```
ConnectionClosed [Client # SM]

  reason: LISTofARRAY8
```

[illegible]

[illegible] *reason* [illegible]

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[illegible] `ConnectionClosed` [illegible]

```
SetProperties [Client # SM]
```

properties: LISTofPROPERTY

[illegible] *properties* [illegible] `SetProperties` [illegible]

[illegible]

```
DeleteProperties [Client # SM]
```

property-names: LISTofARRAY8

[illegible]

```
GetProperties [Client # SM]

  Valid Responses: GetPropertiesReply
```

[illegible]

```
GetPropertiesReply [Client # SM]
```

values: LISTofPROPERTY

$[illegible]*[illegible] `GetProperties` [illegible]*[illegible]([illegible])[illegible]'([illegible] *values* [illegible]+[illegible]

Chapter 8. Errors

[illegible]

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Chapter 9. State Diagrams

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Client State Diagram

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Chapter 10. Protocol Encoding

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Chapter 11. Predefined Properties

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