

# Scoping Document for Launch In Context subprofile

Duane Baldwin, John Crandall, Martine Wedlake

June 25, 2008

Target SMI-S Release: 1.5

NOTE: All sections of the scoping document are optional. However, the champion should attempt to fill out all sections for which there is information available.

NOTE: A scoping document is complete (you may exit scoping) as soon as the scoping document (with whatever level of detail) passes a TWG ballot.

NOTE: The official Release Statement of Work will be derived from balloted scoping documents. Presentations may be used at TSG face to face meetings to explain what the item is all about and answer concerns, but the Statement of Work will be derived from the balloted Scoping Document.

## 1 Description

*This section provides a short description of the work item and how it will address the related Markets Requirements.*

Add Launch-in-Context (LIC) support in SMI-S via the addition of a new LIC subprofile that leverages the Access Points subprofile. This new subprofile will be developed in the Core TWG and will be part of the SMI-S 1.5 Common Profiles book.

Providing solutions to storage customers that enable the integration of various tools, SRMs, and element managers they use to run their business will promote the adoption of SMI-S and provide real value to the customer. Launch-in-Context is one way to provide a basic level of integration and seamless access to storage management tools & applications essential to the customer.

### 1.1 Short Description

*Provide a short description (one or two sentences) of the subject of the Scoping Document. This section is to be used in the creation of the Statement of Work for the SMI-S Release. If nothing is provided, "Not Available" will be placed in the Statement of Work.*

Add Launch-in-Context (LIC) support in SMI-S via the addition of a new LIC subprofile that leverages the Access Points subprofile.

### 1.2 Feature Mapping Requirements

Identify if you believe this scoping document addresses any requirements from the Feature Mapping document. An example table is shown below:

Req #	Requirement	Capability
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### **1.3 Specific Objectives within Scope**

*List (bulleted list) the specific objectives that are intended to be supported by the work outlined in this scoping document.*

- Represent LIC points with meta-data to explain how to establish launch (e.g., SSO, context, parameters, etc.)
- Link LIC point to the management domain
- Provide concrete representation of LIC capabilities

## **2 Dependencies**

*NOTE: All the dependencies do not have to be identified up front. However, any dependencies that are discovered during development of the spec material represents a risk to the scoped item. If a new dependency “discovered” during development, that dependency can cause the item in question to be deferred to a future release.*

### **2.1 TWG Dependencies**

*Describe known dependencies between functions in this scoping document and functions or profiles owned by other TWGs.*

- No direct dependencies outside of Core. But being a common subprofile, various device types may choose to implement.

### **2.2 DMTF WG Dependencies**

*Describe known dependencies between functions in this scoping document and mofs or profiles owned by DMTF WGs.*

- Currently none. New classes are being proposed as SNIA classes.

## 2.3 Other Standards Dependencies

*If the change to SMI-S requires work on the part of any other standards organization (e.g., T11, T10 or IETF) then list those dependencies. For example, if CIM over SCSI depends on a T10 change, then the T10 dependency should be identified.*

- None.

## 2.4 Author Dependencies

*Identify the known existing Spec Clauses (e.g., Profiles) and Authors that are impacted by this scoping document. If agreement from the author has been achieved, indicate that the author has agreed. The following table indicates what is desired:*

Book	Clause / Profile	Author	Agreement
Common	Access Points	?	?
Common	Launch in Context	TBD	

For the last column, the encoding is:

- **No** – means that the champion (author of this scoping document) **does not** have agreement from the Author.
- **Yes** – means that the champion (author of this scoping document) **does** have agreement from the Author.
- **Transfer** – means that the champion will accept having the clause / profile transferred to him / her, AND the author has agreed to the transfer.

NOTE: The Author column is to be filled out with the name of the current author as identified on the Editors and Authors page. For a list of the current Authors of SMI-S see <http://www.snia.org/members/smis/EditorsAndAuthors>

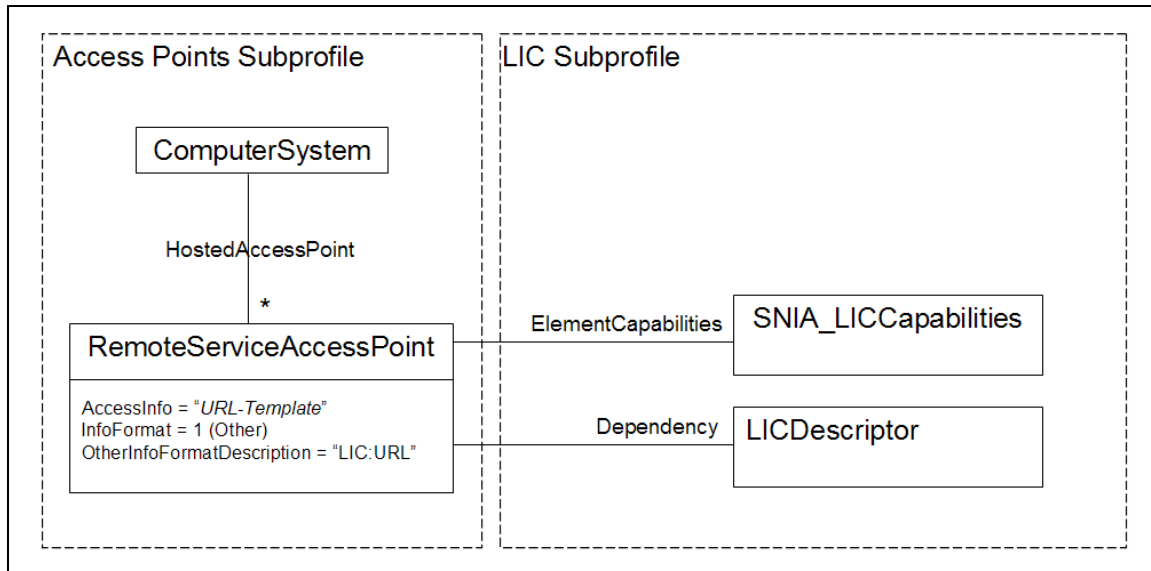
# 3 Modeling Requirements/Detailed Description

## 3.1 Overview

Add Launch-in-Context (LIC) support in SMI-S via the addition of a new LIC subprofile that leverages the Access Points subprofile. Goals:

- Represent LIC points with meta-data to explain how to establish launch (e.g., SSO, context, parameters, etc.)
- Link LIC point to the management domain
- Provide concrete representation of LIC capabilities

### 3.2 Instance Diagram:



### 3.3 RemoteServiceAccessPoint:

- Represents a single launch point into GUI. Additional launch points will be represented by separate instances
- Currently we only support URL-based LIC entry points; other entry points (e.g., direct invocation) will be added later.
- Required Parameters

- **AccessInfo** is the URL template using `${name}` to represent dynamic values taken from the `LICParameterList`. For example:

`http://host1:8020/DisplayHosts?host=${hostID}`

- **InfoFormat** will always be 1 to represent Other
- **OtherInfoFormatDescription** will always be "LIC:URL" to represent Launch-In-Context Template to URL (Web)

### 3.4 SNIA\_LICCapabilities:

- Extends from `CIM_Capabilities` with list of flags indicating the capabilities of the launch point:
  - `uint 16 SupportedActions[]`
    - Unordered array of supported operations (defined within the domain of the specific CIM Class)
  - The `SupportedAction` capabilities are divided into four categories: Block Services, Masking and Mapping, Replication Services, Performance Statistics, Service.
- Block Services capabilities:

- View/Create/Modify/Delete Volume
  - View/Create/Modify/Delete Storage Pool
  - View/Create/Modify/Delete Extent
- Masking and Mapping capabilities:
  - View/Create/Modify/Delete Host Port
  - View/Create/Modify/Delete Host Mapping
- Replication Services capabilities:
  - View/Create/Modify/Delete Replica
  - View/Create/Modify/Delete SynchronizationGroup
  - View/Modify Synchronization
  - View/Modify SynchronizationGroup
- Performance Statistics capabilities:
  - View Volume Statistics
  - View Disk Drive Statistics
  - View Computer System Statistics
  - View Front-End Ports Statistics
  - View Back-End Ports Statistics
  - View Remote Replica Group Statistics
- Service capabilities:
  - View Logs
  - Upgrade Firmware/Software
  - Reboot/Reset Device
  - Configure Device

### **3.5 SNIA\_LICDescriptor:**

- The SNIA\_LICDescriptor represents the catalogue of possible parameters that can be included within the URL-Template of the RemoteServiceAccessPoint.
  - In future, it can also be a place-holder for other LIC specific information (e.g., SSO meta information, etc.).
- It is recommended that there be a single instance with all parameters identified; however, it is permitted to have different instances associated to different RemoteServiceAccessPoint instances if desired.
- SNIA\_LICDescriptor inherits from CIM\_ManagedElement and has the following properties:

```
[key] String Id;
Uint16 DataType[]; // Value Map: 1=uint, 2=sint, 3=string,
4=datetime
// 5=boolean, 6=real

String Name[];
String Description[];
Uint32 UintMin[]; // Optional Range for Uint Params
Uint32 UintMax[];
Sint32 SintMin[]; // Optional Range for Sint Params
Sint32 SintMax[];
String StringPattern[]; // Optional Pattern for String Params
```

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```
DateTime DateTimeMin[]; // Optional Range for DateTime Params
DateTime DateTimeMax[];
```

- All arrays are ordered and correlate by the index; this way we are able to represent a list of parameters within a single instance of the class.
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### 3.6

## 4 Use cases

The following are the anticipated primary uses cases that will drive development of the functionality.

<Martine?>

## 5 Resources for Development of the functionality

### 5.1 TWG Resources

*Project the number of TWG Sessions that will be required to review and discuss the spec for the materials covered by the scoping document. As a guideline, a champion should consider 3 potential meetings: 1) A review of the initial Draft Materials, 2) a review of the Implementation Draft materials and 3) a review of the final materials.*

- Estimate 4-6 Core TWG meetings

### 5.2 Champion / Author Resources

*Project the number of man hours that are expected to develop the spec for the materials covered by the scoping document. This should include the resources required to develop text (frame), visio's, xml files and recipes.*

*As guidelines:*

- *Assume 16 hours to develop new frame text (initial draft)*
  - *Assume 2-4 hours to edit existing frame text*
- *Assume 4 hours to create a new visio*
  - *Assume 1 hour to edit an existing visio*
- *Assume 16 hours to create a new xml file (given a CAG)*
  - *Assume 1 hour to edit an existing xml file*
- *Assume 4 hours to write a new recipe (initial draft)*

- *Assume 1 hour to edit an existing recipe*

- 30-40 hours.

<sections 5 & 6 yet to be completed>

### **5.3 Projected Vendor Implementations**

Identify by name and role, the vendors that are expected to be implementers of the materials covered by the scoping document.

#### **5.3.1 Client Vendors**

- {vendor name}

#### **5.3.2 Provider Vendors**

- {vendor name} – {product type for common subprofiles}

The “Product type” information should be supplied for “common” elements (clauses, packages or subprofiles) to make it clear where these elements would show up in the implementations.

## **6 Conclusion**

*Summarize the benefits for developing the functionality to achieve the Market Requirement and address any item of the Market Requirement that is unable to be unaccomplished due to unavailable resources and/or time constraints.*