HiCAT
Functional Requirements
Version 1.3
August 31, 2004

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Document History:
>   December 30, 2002 - version 1.00, L Keszthelyi, 1st draft.
>   June 6, 2003 - version 1.1, L Keszthelyi, updating.
>   June 12, 2003 - version 1.2, L Keszthelyi, with comments from HiSYS.
>   August 31, 2004 – version 1.3 L Keszthelyi, minor updates/edits.

0) Vision

HiCAT is the central database that links all the key elements of the HiRISE ground data system.

It stores links to Mars data from previous missions, suggested HiRISE images, imaging sequences, raw and processed HiRISE images, ancilliary data, and more which is used by HiWeb, HiPlan, HiCommand, HiDOg, HiProc, and other programs.

These data are available (to different degrees) for to the HiROC staff, distributed HiRISE Co-I's, other MRO scientists, and the Mars science community - general public.

1) Unresolved Issues:
>   1.1   Detailed needs of HiWeb
>   1.2   Needs of HiPlan

2) Core Requirements   *Provide the data needed by all elements of the GDS*
>   2.1   Store and provide access to image suggestions (via HiWeb)
>   2.2   Store and provide access to metadata of other data needed to make good image suggestions (via HiWeb)
>   2.3   Store and provide access to planning sequences (via HiPlan and HiCommand)
>   2.4   Maintain searchable data on processing status of all images
>   2.5   Store and provide access to metadata of validated images (via HiWeb)
>   2.7   Be secure (against malicious outsiders and internal accidents)
>   2.9   Provide requested information in a timely fashion