



Ce document spécifie le contrôle d'interface pour les applications pour le tableau de l'horaire actif

## SATELLITE OPERATIONS

### TABLEAU DE L'HORAIRE ACTIF

#### Document de contrôle d'interface (DCI)

#### MMCSA-IC0002


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## 1 INTRODUCTION

### 1.1 But

L'intention de ce document est de fournir une description des interfaces utilisées par les applications utilisées par le tableau de l'horaire actif à l'exception de l'interface graphique des usagés (GUI) qui est documentée dans un autre document.

This document is intended to provide a detailed description of the interfaces used by the Live Schedule Board application except the graphical user interface (GUI) which is documented with RD2.

### 1.2 Portée

Ce document définit le format utilisé par les fichiers lors du processus d'importation des données et décrit les fichiers de configuration.

### 1.3 Aperçu

Section 1	Présentation du but, de la portée, et définition du document
Section 2	Indique les documents pertinents
Section 3	Identifie les conceptions architecturales des interfaces
Section 4	Fournie une description détaillée des interfaces
Section 5	Fournie des échantillons de fichier d'entrée
Section 6	Fournie des spécifications pour la vérification des interfaces

## 1.4 Définitions and Acronymes

### 1.4.1 Définitions

Schedule Board	Abbreviation for Live Schedule Board web application showing all scheduled contacts during a specific number of upcoming days.
Server	The 'mcfmail.mcc.satops.ca' platform running the Apache server and containing all application components. (i.e. PHP scripts, Python scripts and libraries, MySQL databases, configuration files, images )
Client	Any client PC running a web browser and accessing Schedule Board application on Server.
Home directory	Directory residing on Server and containing application component files <ul style="list-style-type: none"> <li>o /home/sb/www with operational installation</li> <li>o /home/sb_test/www with testing installation</li> <li>o /home/sb_dev/www with development installation</li> </ul> <p>Any directory further addressed in this document will be a relative path to operational home directory. (e.g. "log" directory means "/home/sb/www/log")</p>
Pass	Common term for real-time satellite contact at the TT&C antenna.

User Any person accessing the Schedule Board page on a client PC.

### 1.4.2 Acronymes

AOS	Acquisition of Signal
CC	Cyclic Counter
DOY	Day-of-Year numbering system
GSA	Ground Systems Analyst
GUI	Graphical User Interface
HWCI	Hardware Configuration Item
ICD	Interface Control Document
I/O	Input / Output
LOS	Loss of Signal
LTM	Long Term Pass Schedule for R2
LTT	Long Term Trending
LAN	Local Area Network
MOC	Mission Operations Centre
MOS	Mission Operations System
PLAN	Planning (Operational Scheduling) for S1
R1	RADARSAT-1
R2	RADARSAT-2
S1	SCISAT-1
SASK	Saskatoon Ground Station
SHUB	St-Hubert Ground Station
SAS	Spacecraft Activity Schedule
S/C	Spacecraft

## 2 DOCUMENTS PERTINANT

### 2.1 Contrôle de configuration

Ce document est contrôlé tel que prescrit dans les politique et procédure des opérations satellitaires et les procédures de support du cycle de vie des opérations de satellites.

### 2.2 Documents applicable

N/A

### 2.3 Documents Dérivés

N/A

### 2.4 Documents de référence



### 3 CONCEPTION ARCHITECTURALE DES INTREFACES

The DCS Interface architecture is based on the following components.

- File import Interface
- Configuration file

The following sections will describe the structure of these interfaces.

#### 3.1 Format Générique des Dates/temps

In order to reduce size and complexity of the document, the following table will detail the format used to describe dates and times during this document.

Format	Description	Range
DD	Day two-digits number (in month)	01 ... 31
Doy	Day of the year three digits number	001 ... 366
Mon	Month three-letters name	Jan ... Dec
Month	Month complete name	January ... December
MM	Month two-digit number (in year)	01 ... 12
YYYY	Year four-digit number	2000 ... 2099
hh	Hour two-digit number	00 ... 23
mm	Minute two-digit number	00 ... 59
ss	Second two-digit number	00 ... 59
ww	Week number	1...52
ff...f	Fraction of a second	Depends on the number of digits
nn...n	Integer value.	Depends on the number of digits Note: If related to the orbit field inside of the product file (and not in the file name), all leading digits will not be printed/shown if zero.
cc	Cyclic counter.	Two-digit cyclic counter.
aa...a	Variable length character string.	Depends on the number of characters.

Note: Unless otherwise mentioned, numbers will be added with leading zeros if their value is too small to fit the format.

**Table 1: Fields Format**

Within the generic mission MOC, a specific format for displaying a generic time will be used as follows:

- YYYY-Doy-hh:mm:ss.fff - in the case where fractional seconds are necessary;
- YYYY-Doy-hh:mm:ss - in the case where whole seconds are acceptable.

This format for full date and time will be used whenever possible (both in header information and within the data itself).

### 3.2 Convention des noms générique des fichiers

A generic approach to naming files will be considered in order to help all components of the MOC (including personnel) identify both the type of data and its content. No single format can encapsulate the entire range of requirements however a minimum convention must be respected in all MOC products:

- All file names will begin with a mission identification code (e.g. S1).
- The filename extension will identify the file types (e.g. S1xxxxxxx.STC for SCISAT-1 Station Contact Times).
- <S/C name> represents the S/C full name (e.g. SCISAT-1, RADARSAT\_1, Radarsat-II, NEOSat, ...)
- <S/C identifier> represents the S/C ID (e.g. S1, R1, R2, N1)

The remainder of the filename is used to uniquely, and unambiguously identify the product. In all cases where time information is used to identify a product, the time used in the name will describe the **content** of the file, specifically the start time of the product information.

## 4 DESCRIPTION DES INTERFACES

### 4.1 INTERFACE DES FICHER D'ENTRÉE

#### 4.1.1 Generic mission – T3S import file

Interface Information	
Name	T3 Schedule
Overview	This file will be used as a prime input file when importing S/C planned contacts. If the file is found as not valid after file validation process, a backup input file type (e.g. NEOS_WEEKww.SAS) will be searched on the import repository and used to import contact data.
Type	ASCII File
Category	Planning
Frequency	Weekly
File Information	
Name	<S/C identifier>_YYYYDoy.T3S
Size	Variable

File Format		
Header	Notes:	
	- Rows are composed of 6 columns, separated by spaces only. - A carriage-return character separates the rows.	
	Column 1	Column 2
1	;###FILENAME:	<S/C identifier>_YYYYDoy.T3S
2	;###SPACECRAFT_IDENTIFIER:	<S/C name>
3	;###FILE_CREATION_TIME:	<YYYY-Doy-hh:mm:ss.fff> UTC
4	;###FILE_SOURCE:	PLAN-<S/C identifier>
5	;###FILE_DESTINATION:	< Mission data management system identifier> (e.g. DM)
6	;###FILE_TYPE:	T3 SCHEDULE
7	;*****	
8	;	



File Format				
9		; SAS_START_OF_SPAN	<YYYY-Doy-hh:mm:ss>	
10		; SAS_END_OF_SPAN	<YYYY-Doy-hh:mm:ss>	
11		;		
12		;Station AOS(UTC) LOS(UTC) Duration Rate Orbit		
13		;		
14		;		
<b>Body</b>	Notes: - Rows are composed of 6 columns, separated by spaces only.			
<b>Field</b>	<b>Row</b>	<b>Format</b>	<b>Description</b>	<b>Length</b>
Station	1	<Station ID>	Station identifier. (Shub,Sask,Asf,Krn)	Variable
AOS	2	<yyyy-doy-hh:mm:ss>	Station identifier. <a...a>: Link type (RF, HBR) <nnnnn>: Orbit number	17
LOS	3	<yyyy-doy-hh:mm:ss>	AOS date,time	17
Duration	4	<mm:ss>	RF/HBR duration	5
Rate	5	<4M>		2
Orbit	6	<nnnnnn>	Orbit number	Variable
<b>Footer</b>				
1		;		
2		;End_of_File		

4.1.2 S1 mission – data import main file (SAS\_WEEKww.SAS)

Interface Information	
Name	Plan Activity Schedule
Overview	This file will be used as a prime input file when importing S/C planned contacts. If the file is found as not valid after file validation process, a backup input file type (SAS_LT_WKww.SAS) will be searched in the import repository and used to import data.
Type	ASCII File
Category	Planning
Frequency	Weekly
File Information	
Name	<S/C identifier>_WEEK<ww>.SAS (<w> stands for the week number)
Size	Variable

File Format		
<b>Header</b>	Notes: - Rows are composed of 2 columns, separated by spaces only. - A carriage-return character separates the rows.	
	Column 1	Column 2
1	;###FILENAME:	SAS_WEEK<ww>.SAS
2	;###SPACECRAFT_IDENTIFIER:	<S/C name>
3	;###FILE_CREATION_TIME:	<YYYY-Doy-hh:mm:ss> UTC
4	;###FILE_SOURCE:	PLAN-<S/C identifier>
5	;###FILE_DESTINATION:	< Mission data management system identifier> (e.g. DM for S1 mission)
6	;###FILE_TYPE:	PLAN-<S/C identifier>_ACTIVITY_SCHEDULE
7	.*****	
8	;	
9	; SAS_START_OF_SPAN	<YYYY-Doy-hh:mm:ss>

File Format				
10		; SAS_END_OF_SPAN	<YYYY-Doy-hh:mm:ss>	
11		;		
12		;ACTIVITY	START TIME/DURATION(RF)	END TIME
13		;		
Body	Notes: - Rows are composed of 3 columns, separated by spaces only. - A carriage-return character separates the rows. - Rows are grouped by (station + orbit number) and each row in group will be addressed below as Row1, Row2.			
	Field	Row	Format	Description
Activity	1	<Station ID> <a...a><nnnnn>	<Station ID>: Station identifier. Shub,Sask,Asf,Krn) <a...a>: Variable string. (Signal, HBR) <nnnnn>: Orbit number	Variable
	2	<Station ID> <a...a><nnnnn>	Station identifier. <a...a>: Link type (RF, HBR) <nnnnn>: Orbit number	Variable
Start time/ Duration(RF)	1	<yyyy-doy-hh:mm:ss>	AOS date,time	17
	2	~~ <hh:mm>	RF/HBR duration	9
End time	1	<yyyy-doy-hh:mm:ss>	LOS date,time	17
Footer				
1		;		
2		;End_of_File		

#### 4.1.3 S1 mission – data import backup file (SAS\_LT\_WKww.SAS)

Interface Information	
Name	Spacecraft Activity Schedule
Overview	This file will be used as a backup import file when a prime type import file is not available or has invalid data. The file will be used to import S/C passes for the week specified in the file name.
Type	ASCII File
Category	Planning
Frequency	Weekly
File Information	
Name	<S/C identifier>_LT_WK<ww>.SAS (<ww> stands for the week number)
Size	Variable

File Format		
Header	Notes: - Rows are composed of 2 columns, separated by spaces only. - A carriage-return character separates the rows.	
	Column 1	Column 2
1	;FILENAME:	<S/C identifier>_LT_WK<WW>.SAS
2	;SPACECRAFT_IDENTIFIER:	<<S/C name>
3	;FILE_CREATION_TIME:	<DD Mon YYYY hh:mm:ss UTC>
4	;FILE_SOURCE:	DECONFLICT-<S/C identifier>
5	;FILE_DESTINATION:	Mission data management system ID (e.g. DM for S1 mission)
6	;FILE_TYPE:	<S/C identifier>_PASS_SCHEDULE

File Format			
7	.***** ; **		
8	;		
9	;SAS_START_OF_SPAN	<YYYY-Doy-hh:mm:ss.fff>	
10	;SAS_END_OF_SPAN	< YYYY-Doy-hh:mm:ss.fff>	
11	; Daily Daily Planning		
12	;PASS	START TIME	END TIME RF HBR Passes RF Day
13	;		
Body	Notes: - Rows are composed of 9 columns separated by spaces only. - A carriage-return character separates the rows. - The line: ' nn HOUR GAP' is added after the current row each time a gap of <nn> hours is detected between the LOS time of the current row and the AOS time of the next row.		
	Field	Format	Description
Station	<aaaa>	Station identifier. (SHUB, SASK)	4
Pass #	<nnnnnn>	Orbit number.	6
START TIME	<YYYY-Doy-hh:mm:ss>	Start time of the activity. (See Table 1: Fields Format)	17
END TIME	<YYYY-Doy-hh:mm:ss>	End time of the activity. (See Table 1: Fields Format)	17
RF	<mm:ss>	Total RF duration in format: <total minutes:total seconds>	5
HBR	<mm:ss>	Total HBR duration in format: <total minutes:total seconds>	5
Daily Passes	<nn>	Total passes by planning day.	2
Daily RF	<nn:nn>	Total RF duration by planning day.	5
Planning Day	PD <nnn>	Planning day.	6
Footer	;		

4.1.4 S1 mission – events import file (STC)

Interface Information	
Name	Station Contact Time
Overview	This file will be used as an input file when importing S/C events planned for a long term period. (typically four weeks)
Type	ASCII File
Category	Planning
Frequency	Weekly
File Information	
Name	<S/C identifier><YYYYMonDDcc>.STC
Size	Variable

File Format		
Header	Notes: - Rows are composed of 2 columns, separated by spaces only. - A carriage-return character separates the rows.	
	Column 1	Column 2
1	####FILENAME:	<S/C identifier><YYYYMonDDcc>.STC
2	####SPACECRAFT_IDENTIFIER:	<S/C name>
3	####FILE_CREATION_TIME:	<YYYY-Doy-hh:mm:ss UTC>
4	####FILE_SOURCE:	OAS-<S/C identifier>

File Format			
5	;###FILE_DESTINATION:	< Mission data management system identifier> (e.g. DM for S1 mission)	
6	;###FILE_TYPE:	OAS-<S/C identifier>_STATION CONTACT_TIMES	
7	;*****		
8	;		
9	;OAS_STC_START_OF_SPAN:	<YYYY-Doy-hh:mm:ss>	
10	;OAS_STC_END_OF_SPAN:	< YYYY-Doy-hh:mm:ss>	
11	;		
12	;Station Event	Time (UTC)	Elevation Azimuth Orbit
13	;	(deg)	(deg)
14	;		
<b>Body</b>	Notes: - Rows are composed of 6 columns, separated by spaces only. - A carriage-return character separates the rows. - Rows are grouped by orbit number - Groups are separated by rows containing ';' character only.		
Field	Format	Description	Length
Station	<Station ID	Station identifier. (e.g. ASF, BANG, DRDC, KRN, MAUR, SASK, SHUB, WHM,...)	4
Event	<aaaaaaaa>	Event identifier. (e.g. AOS, LOS, RF_ON, RF_OFF, MAX_EL, NULL_ST, NULL_END)	8
Time	<YYYY-Doy-hh:mm:ss>	Event time.(UTC) (See Table 1: Fields Format)	17
Elevation	<nn.n> or "N/A"	Event elevation. (deg)	4
Azimuth	<nnn.n> or "N/A"	Event azimuth. (deg)	5
Orbit	<nnnnnn> or "N/A"	Orbit number.	6
Footer			
1	;End_of_File		

4.1.5 R1 mission – import file (WKS)

Interface Information	
Name	Spacecraft Activity Weekly Schedule
Overview	This file is used as a input file for importing R1 contacts
Type	ASCII File
Category	Planning
Frequency	Weekly
File Information	
Name	S<YYDOYcc>.WKS
Size	Variable

File Format		
<b>Header</b>	Notes: - Some rows are composed of two columns, separated by spaces only and others rows are composed of one column. - A carriage-return character separates the rows.	
	Column 1	Column 2
1	;###FILENAME:	S<YYDOYcc>.WKS
2	;###SPACECRAFT_IDENTIFIER:	RADARSAT_1
3	;###FILE_CREATION_TIME:	<YYYY-Doy-hh:mm:ss.fff>
4	;###FILE_SOURCE:	SSCM
5	;###FILE_DESTINATION:	SDB

File Format			
6	;###FILE_TYPE:		SPACECRAFT ACTIVITY WEEKLY SCHEDULE
7	Empty row		
8	RADARSAT WEEKLY SCHEDULE		
9	Empty row		
10	SAWS ID: SAWS_<yyyy>_<Doy>		
11	SAWS CONFLICT STATUS: CONFLICTS		
12	SAWS START: <YYYY-Doy-hh:mm:ss>		
13	SAWS END: <YYYY-Doy-hh:mm:ss>		
14	Empty row		
15	ORBIT#	STATION	START STOP DURATION TELEMETRY ACTIVITIES OBJECTIVES PLEX
16	-----		
17	Empty row		
Body	Notes: - Rows are composed of 9 columns separated by spaces only. - A carriage-return character separates the rows. - Rows are grouped by orbit and groups are separated with the empty row. - Rows are ordered by orbit number.		
	Field	Format	Description
Orbit	<nnnnn>	Orbit number.	5
Station	<Station ID>	Station identifier.(e.g. SHUB, SASK, AUS, STC, KRU, KER, HBK)	6
Start	<Doy-hh:mm:ss>	Contact start time. (See Table 1: Fields Format)	12
Stop	<Doy-hh:mm:ss>	Contact start time. (See Table 1: Fields Format)	12
Duration	<nn.nn>	Contact duration time.	5
Telemetry	<a...a>	Telemetry type. (e.g. 4K_MEM, 2K_ENG_CO, ...)	Variable
Activities	<a...a>	Activity ID list.(e.g. ECLIPSE_ST, ECLIPSE_END, XMITON_DSU2, ...)	5
Objectives	<a...a>	Objective list.(e.g. FDEV, Penumbra outage)	Variable
Plex	<aaaaaaaa>	String. (e.g. -XOOI---, -----)	8
Footer	Notes: - SAWS CONFLICTS are displayed on two columns separated by spaces. - A carriage-return character separates the rows.		
	1	SAWS CONFLICTS	
2	-----		
3	Empty row		
4...N	Column 1	Column 2	
	<nn> (Conflict#)	<a...a> (Conflict description)	

#### 4.1.6 RADARSAT-2 mission – import file (LTM)

Interface Information	
Name	Radarsat-2 Long Term Pass Schedule
Overview	Input file used for importing R2 long term planning contacts.
Type	ASCII File
Category	Planning
Frequency	Weekly
File Information	

---

Name	SPS__OP__LongTerm_R2_<YYYY-Doy_YYYY-Doy-hhmmss>.LTM
Size	Variable

File Format			
<b>Header</b>	Notes: - Rows are composed of 2 columns, separated by spaces only. - A carriage-return character separates the rows.		
	Column 1		
1	Radarsat-II Long Term Pass Schedule		
2	Empty row		
3	Schedule Start Time: <YYYY-Doy-hh:mm:ss>      Schedule EndTime: <YYYY-Doy-hh:mm:ss>		
4	Empty row		
5	Empty row		
6	CID StationID	Orbit	RF      AOS      LOS
	Product Released		RASE Template Applied
7	-----	----	--      ---      ---      -----
8	-----		
<b>Body</b>	Notes: - Rows are composed of 8 columns separated by spaces only. - A carriage-return character separates the rows.		
<b>Field</b>	<b>Format</b>	<b>Description</b>	<b>Length</b>
CID	<nnnnnn>	Pass ID	7
Station ID	<aaaaaaa>	Station ID ( SHUB, SASK, SVALSAT,...)	7
Orbit	<nnnnn>	Orbit number	5
RF	<nnn>	Contact RF duration.(sec)	3
AOS	< YYYY-Doy-hh:mm:ss>	AOS time. (See Table 1: Fields Format)	17
LOS	< YYYY-Doy-hh:mm:ss>	LOS time. (See Table 1: Fields Format)	17
Product Released	SPS_CA_R2_SHUB_nnnnn_YYYY-Doy-nnnnn	Product Released.	38
RASE Template Applied	RASE template string. (e.g.: CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284552_20113432114.XSCH)	RASE template name.	65
<b>Footer</b>	Empty row		

#### 4.1.7 Trigger alert – input file

Interface Information	
Name	Alert trigger text file.
Overview	Input file issued inside the alert pool repository ('/var/tmp/alert_pool' with the operational installation) used to trigger a new alert popup on the Schedule Board SCT room screen. The file content will be shown inside the alarm popup frame.
Type	ASCII File
Category	File created by CRAMS application.
Frequency	Random
File Information	
Name	Name can differ but the templates specified in main configuration file (sb.conf) must be matched. (e.g. CSM_Alert-<yyyyMMDD>-<hh:mm:ss>, JSpOC_Alert-<yyyyMMDD>-<hh:mm:ss>, ...)
Size	Variable





```

[alert_originator_DLR]
file_template = DLR_Valid_Conjunctions*
alert_msg_one = You have received a message from DLR.
alert_msg_two = Please page on-call
;
[alert_originator_SOCRATES]
file_template = SOCRATES_Alert*
alert_msg_one = You have received a message from SOCRATES.
alert_msg_two = Please page on-call
;
[alert_originator_JSpOC]
file_template = JSpOC_Alert*
alert_msg_one = You have received a message from JSpOC.
alert_msg_two = Please page on-call
;
[alert_originator_CCRS]
file_template = R1_*_dataloss.doc
alert_msg_one = New negative X-Band report received from CCRS.
priority = 2
;
[alert_originator_TEST]
file_template = test*. *
alert_msg_one = This is just a test message.
alert_msg_two = Please ignore it.
priority = 1
;
[file_name]
;Name of XML generated file.
xml_file = passes.xml
log_file = log/sb.log
;
[session]
; this will set the session timeout value to 45 minutes
maxlifetime = 2700

[screen]
; number of days to be printed on XML file
xml_query_days = 10
; number of days to be displayed on board
show_days = 5
; number of rows showing the clock countdown container
show_cd_rows = 3
refresh_rate = 60
;
[sc]
addpass_sc_list = RADARSAT-1,SCISAT-1,RADARSAT-2,NEOSSAT,CNES CALIPSO,CNES H-
2A,CNES H-2B,CNES Pleiades,CNES SPOT5,DLR TSR-X,DLR TSR-X-2,DLR TDM-X,DLR TET-1,DLR
ENMAP,DLR PAZ,PTP0-SHUB,PTP1-SHUB,PTP2-SHUB,PTP3-SHUB,PTP1-SASK,PTP2-
SASK,SOC1,SOC2,ITOS3,ITOS4,SOYUZ,ARIANE 5,Other
addssi_sc_list = R1-RSI,S1-SSI,R2-SSI,N1-SSI
; Special Instr. stations showing aos/los fields
si_st_show_aos_los = KRN-VC4,ASF-VC4
;
[stations]
; internal station list
import_st_list = SHUB,SASK
; addpass station list
addpass_st_list = SHUB,SASK,AUS,HBK,KER,KRU,STC,SVAL,WHM,KRN-VC4,ASF-VC4,GARS
;
[data_import]
;Life duration for data import files.
import_file_life_time = 30
;
[constraint]
; add pass constraints

```



```

<table border="1" width = '100%'>
<tr bgcolor="#9acd32">
<th>S/C </th>
<th>Site </th>
<th>Orbit </th>
<th>AOS </th>
<th>RF.On </th>
<th>RF.Off</th>
<th>LOS </th>
<th>RF.Dur</th>
<!--<th>Oper</th>
<th>Desc</th-->
</tr>
<xsl:for-each select="BOARD/PASS">
<tr>
<td align='center'>
<font size="4">
<xsl:value-of select="SC"/>
</font>
</td>
<td><xsl:value-of select="SITE" /></td>
<td><xsl:value-of select="ORBIT" /></td>
<td><xsl:value-of select="substring(AOS,6)" /></td>
<td><xsl:value-of select="substring(RF_ON,6)" /></td>
<td><xsl:value-of select="substring(RF_OFF,6)" /></td>
<td><xsl:value-of select="substring(LOS,6)" /></td>
<td align='right'>
<xsl:value-of select="RFDUR" />
</td>
<!--<td><xsl:value-of select="OPER" /></td>
<td><xsl:value-of select="DESC" /></td-->
</tr>
</xsl:for-each>
</table>
<table border="0" width = '100%'>
<tr>
<td width = '5%' align='left'>
<A HREF='javascript:javascript:window.close()' rel='prev'>Home</A>
</td><td width = '5%' align='left'>
<A HREF='javascript:window.print()'>Print </A>
</td><td width = '80%' align='right'>
<A HREF='file_download.php?file=passes.xml'
rel='next' target='_blank'>Download</A>
</td>
</tr>
</table>
</body></html>
</xsl:template>
</xsl:stylesheet>

```

## 5 VÉRIFICATION DES INTERFACES

La version courante 1.0 a la capacité d'avoir une interface de vérification pour l'interface d'entrée et des vérifications suivantes seront exécutés pendant le processus d'importation des données

- Mission specific imported file is present in the import directory
- File name properly specified in file header.
- S/C name properly specified in file header.
- Span window properly specified in file header.

- Consistent data present inside the imported file.

### Appendix A: S1 – main import file (SAS) sample

```

;FILENAME:          SAS_WEEK28.SAS
;SPACECRAFT_IDENTIFIER:  SCISAT-1
;FILE_CREATION_TIME:    2012-193-11:24:18 UTC
;FILE_SOURCE:          PLAN-S1
;FILE_DESTINATION:     DM
;FILE_TYPE:            PLAN-S1_ACTIVITY_SCHEDULE
;*****
;
;
;SAS_START_OF_SPAN      2012-193-17:00:00
;SAS_END_OF_SPAN        2012-204-23:59:59
;
;
;ACTIVITY              START TIME/DURATION(RF)      END TIME
;
ShubSignal47994        2012-193-18:49:24      2012-193-19:00:40
ShubRF47994            ~~ 09:49
SaskSignal47995        2012-193-20:29:46      2012-193-20:40:12
SaskRF47995            ~~ 06:49
KrnHBR47995            2012-193-20:44:11      2012-193-20:53:56
KrnHBR47995            ~~ 09:45
SaskSignal47996        2012-193-22:06:40      2012-193-22:20:24
SaskRF47996            ~~ 11:13
KrnHBR47996            2012-193-22:23:37      2012-193-22:32:00
KrnHBR47996            ~~ 08:23
SaskSignal47997        2012-193-23:47:10      2012-193-23:59:46
SaskRF47997            ~~ 09:39
SaskSignal47998        2012-194-01:30:18      2012-194-01:39:17
SaskRF47998            ~~ 03:23
AsfHBR47999            2012-194-03:11:11      2012-194-03:17:35
AsfHBR47999            ~~ 06:24
ShubSignal47999        2012-194-03:19:33      2012-194-03:25:54
ShubRF47999            ~~ 04:25
SaskSignal48002        2012-194-08:12:37      2012-194-08:25:44
SaskRF48002            ~~ 10:28
AsfHBR48003            2012-194-09:47:11      2012-194-09:56:00
AsfHBR48003            ~~ 08:49
AsfHBR48004            2012-194-11:27:05      2012-194-11:33:26
AsfHBR48004            ~~ 06:21
KrnHBR48006            2012-194-14:30:14      2012-194-14:40:13
KrnHBR48006            ~~ 09:59
KrnHBR48007            2012-194-16:12:34      2012-194-16:19:47
KrnHBR48007            ~~ 07:13
ShubSignal48009        2012-194-19:13:58      2012-194-19:26:36
ShubRF48009            ~~ 11:03
KrnHBR48009            2012-194-19:31:42      2012-194-19:40:02
KrnHBR48009            ~~ 08:20
SaskSignal48010        2012-194-20:53:36      2012-194-21:06:00
SaskRF48010            ~~ 09:35
SaskSignal48011        2012-194-22:32:00      2012-194-22:45:43
SaskRF48011            ~~ 11:10
KrnHBR48011            2012-194-22:48:58      2012-194-22:56:40
KrnHBR48011            ~~ 07:42
SaskSignal48012        2012-195-00:13:37      2012-195-00:25:02
SaskRF48012            ~~ 07:59
AsfHBR48013            2012-195-01:55:12      2012-195-02:03:22
AsfHBR48013            ~~ 08:10
AsfHBR48014            2012-195-03:37:47      2012-195-03:43:01
AsfHBR48014            ~~ 05:14
ShubSignal48014        2012-195-03:44:03      2012-195-03:55:17
ShubRF48014            ~~ 08:34
SaskSignal48015        2012-195-05:19:02      2012-195-05:31:01
SaskRF48015            ~~ 08:48
SaskSignal48016        2012-195-06:58:21      2012-195-07:12:10
SaskRF48016            ~~ 11:18
;
;.....
;
;End_of_File

```

### Appendix B: S1 – backup import file (SAS) sample

```

;FILENAME:          SAS_LT_WK33.SAS
;SPACECRAFT_IDENTIFIER:  SCISAT-1
;FILE_CREATION_TIME:    23 Jul 2012 11:10:41 UTC
;FILE_SOURCE:          DECONFLICT-S1
;FILE_DESTINATION:     DM
;FILE_TYPE:            S1_PASS_SCHEDULE
;*****
;
;
;SAS_START_OF_SPAN      2012-225-05:00:00.000
;SAS_END_OF_SPAN        2012-233-00:00:00.000
;
;                      Daily   Daily Planning
;PASS   START TIME     END TIME      RF    HBR   Passes  RF   Day
;
SHUB 48463  2012-225-14:04:14  2012-225-14:17:10  11:00  11:00
SHUB 48464  2012-225-15:46:56  2012-225-15:56:02  04:38  04:38
SASK 48465  2012-225-17:23:06  2012-225-17:35:57  10:00  10:00
SASK 48466  2012-225-19:06:04  2012-225-19:15:24  04:16  04:16
SASK 48468  2012-225-22:29:55  2012-225-22:40:10  06:06  06:06
SASK 48469  2012-226-00:09:16  2012-226-00:22:34  10:37  10:37
SASK 48470  2012-226-01:48:46  2012-226-02:02:01  10:40  10:40    7  57:17 PD 225
11 HOUR GAP
SHUB 48478  2012-226-14:30:13  2012-226-14:42:22  09:50  09:50
SASK 48480  2012-226-17:49:26  2012-226-18:01:11  08:27  08:27
SASK 48483  2012-226-22:55:12  2012-226-23:06:50  08:18  08:18
SHUB 48484  2012-227-00:39:36  2012-227-00:49:47  06:24  04:35    4  32:59 PD 226
SHUB 48506  2012-228-12:01:53  2012-228-12:13:21  09:59  01:16
SHUB 48507  2012-228-13:40:49  2012-228-13:53:35  10:45  10:45
SASK 48508  2012-228-15:19:13  2012-228-15:33:00  11:17  11:17
SASK 48509  2012-228-16:59:49  2012-228-17:12:21  09:35  09:35
SASK 48510  2012-228-18:43:00  2012-228-18:51:53  03:05  03:05
SASK 48512  2012-228-22:06:21  2012-228-22:17:02  06:52  06:52
SHUB 48513  2012-228-23:50:13  2012-229-00:02:06  08:54  06:00    7  60:27 PD 228
11 HOUR GAP
SHUB 48521  2012-229-12:26:29  2012-229-12:39:13  11:08  09:10
SHUB 48522  2012-229-14:06:58  2012-229-14:18:44  09:14  09:14
SASK 48523  2012-229-15:44:34  2012-229-15:58:17  11:09  11:09
SASK 48524  2012-229-17:26:15  2012-229-17:37:35  07:50  07:50
SASK 48527  2012-229-22:31:37  2012-229-22:43:37  08:51  08:51
SHUB 48528  2012-230-00:16:23  2012-230-00:25:27  04:24  00:18    6  52:36 PD 229
11 HOUR GAP
SHUB 48536  2012-230-12:51:40  2012-230-13:04:42  11:13  11:13
SHUB 48537  2012-230-14:33:45  2012-230-14:43:44  06:23  06:23
SASK 48538  2012-230-16:10:22  2012-230-16:23:31  10:26  10:26
SASK 48539  2012-230-17:53:01  2012-230-18:02:54  05:25  05:25
SASK 48541  2012-230-21:17:26  2012-230-21:27:07  05:02  05:02
SASK 48542  2012-230-22:56:51  2012-230-23:09:51  10:15  10:15    6  48:44 PD 230
11 HOUR GAP
SHUB 48551  2012-231-13:17:26  2012-231-13:29:58  10:23  10:23
SASK 48553  2012-231-16:36:33  2012-231-16:48:45  09:05  09:05
SHUB 48555  2012-231-20:08:13  2012-231-20:17:04  06:36  06:36
SASK 48556  2012-231-21:42:46  2012-231-21:53:53  07:32  07:32
SASK 48557  2012-231-23:22:04  2012-231-23:35:41  11:02  11:02    5  44:38 PD 231
11 HOUR GAP
SHUB 48566  2012-232-13:43:47  2012-232-13:55:04  08:32  08:32
SASK 48568  2012-232-17:03:06  2012-232-17:14:00  07:10  07:10
SHUB 48570  2012-232-20:32:54  2012-232-20:45:01  09:19  09:19
SASK 48571  2012-232-22:08:01  2012-232-22:20:22  09:20  09:20    4  34:21 PD 232
;

```

### Appendix C: S1 – events import file (STC) sample

```

;FILENAME:                S112072389.STC
;SPACECRAFT_IDENTIFIER:   SCISAT-1
;FILE_CREATION_TIME:      2012-201-11:29:00 UTC
;FILE_SOURCE:             OAS-S1
;FILE_DESTINATION:        DM
;FILE_TYPE:               OAS-S1_STATION_CONTACT_TIMES
;*****
;
;
;OAS_STC_START_OF_SPAN:   2012-205-00:00:00
;OAS_STC_END_OF_SPAN:    2012-234-00:00:00
;
;
;Station Event      Time (UTC)      Elevation  Azimuth  Orbit
;                  (deg)          (deg)
;
ASF  AOS      2012-205-01:06:19  2.0    246.1  48160
ASF  NULL_ST 2012-205-01:06:19  2.0    246.1  48160
ASF  RF_ON   2012-205-01:07:04  5.0    247.9  48160
ASF  NULL_END 2012-205-01:10:12  24.5   264.9  48160
ASF  MAX_EL  2012-205-01:12:36  46.2   325.8  48160
ASF  RF_OFF  2012-205-01:18:10  5.0    43.7   48160
ASF  LOS     2012-205-01:18:55  2.0    45.5   48160
;
ASF  AOS      2012-205-02:47:32  4.1    282.8  48161
ASF  NULL_ST 2012-205-02:47:32  4.1    282.8  48161
ASF  RF_ON   2012-205-02:47:47  5.0    283.9  48161
ASF  NULL_END 2012-205-02:49:50  14.4   297.5  48161
ASF  MAX_EL  2012-205-02:52:59  28.1   350.5  48161
ASF  RF_OFF  2012-205-02:58:12  5.0    57.2   48161
ASF  LOS     2012-205-02:58:59  2.1    60.6   48161
;
ASF  AOS      2012-205-04:27:32  2.0    304.3  48162
ASF  NULL_ST 2012-205-04:27:32  2.0    304.3  48162
ASF  RF_ON   2012-205-04:28:19  5.0    307.4  48162
ASF  NULL_END 2012-205-04:30:06  13.2   318.0  48162
ASF  MAX_EL  2012-205-04:33:36  30.2   15.9   48162
ASF  RF_OFF  2012-205-04:38:52  5.0    84.3   48162
ASF  LOS     2012-205-04:39:34  2.3    87.1   48162
;
ASF  AOS      2012-205-06:07:27  2.0    316.7  48163
ASF  NULL_ST 2012-205-06:07:27  2.0    316.7  48163
ASF  RF_ON   2012-205-06:08:12  5.0    318.0  48163
ASF  NULL_END 2012-205-06:09:53  13.9   322.4  48163
ASF  MAX_EL  2012-205-06:13:50  57.8   40.4   48163
ASF  NULL_ST 2012-205-06:18:30  9.5    120.5  48163
ASF  RF_OFF  2012-205-06:19:27  5.0    122.7  48163
ASF  NULL_END 2012-205-06:20:11  2.0    123.9  48163
ASF  LOS     2012-205-06:20:11  2.0    123.9  48163
;
;
;... ..
;
;End_of_File

```

## Appendix D: R1 - import file (ALS) sample

```

;###FILENAME:           D1134507.ALS
;###SPACECRAFT_IDENTIFI: RADARSAT_1
;###FILE_CREATION_TIME: 2011-345-16:49:15.000
;###FILE_SOURCE:       FD
;###FILE_DESTINATION:  SDB
;###FILE_TYPE:        FD_AOS_LOS_DATA
;*****
;
;
FD_AOS_LOS_START_SPAN      2011-346-18:30:00.000
FD_AOS_LOS_END_SPAN       2012-009-19:30:00.000
;
;
01122                      ;Number of AOS-LOS Entries
;
;
;ID  Rev#  Station Event    Time (UTC MCF Format) Azimuth  Elevation
;                (deg)  (deg)
;
A60338 84068 SHUB  AOS    2011-346-20:34:24.880 112.7  0.0
A60338 84068 SHUB  RF START 2011-346-20:36:02.880 103.8  5.0
A60338 84068 SHUB  MAX ELEV 2011-346-20:40:33.680  57.0 15.2
A60338 84068 SHUB  RF END  2011-346-20:45:06.080 10.2  5.0
A60338 84068 SHUB  LOS    2011-346-20:46:43.680  1.5  0.0
;
A60339 84069 SHUB  AOS    2011-346-22:11:51.246 165.0  0.0
A60339 84069 SHUB  RF START 2011-346-22:13:06.846 165.4  5.0
A60339 84069 SHUB  MAX ELEV 2011-346-22:19:21.646 254.2 86.5
A60339 84069 SHUB  RF END  2011-346-22:25:40.446 345.8  5.0
A60339 84069 SHUB  LOS    2011-346-22:26:56.446 346.2  0.0
;
A60340 84070 SHUB  AOS    2011-346-23:53:47.356 221.1  0.0
A60340 84070 SHUB  RF START 2011-346-23:55:39.756 233.1  5.0
A60340 84070 SHUB  MAX ELEV 2011-346-23:59:38.556 273.3 11.5
A60340 84070 SHUB  RF END  2011-347-00:03:38.956 313.6  5.0
A60340 84070 SHUB  LOS    2011-347-00:05:32.556 325.6  0.0
;
A60341 84076 SHUB  AOS    2011-347-10:22:37.141  23.5  0.0
A60341 84076 SHUB  RF START 2011-347-10:24:02.341  28.8  5.0
A60341 84076 SHUB  MAX ELEV 2011-347-10:29:45.941  94.9 28.8
A60341 84076 SHUB  RF END  2011-347-10:35:27.141 160.7  5.0
A60341 84076 SHUB  LOS    2011-347-10:36:50.341 165.8  0.0
;
A61928 84465 HBK  AOS    2012-009-16:33:22.153 174.1  5.0
A61928 84465 HBK  RF START 2012-009-16:33:36.153 174.4  6.0
A61928 84465 HBK  MAX ELEV 2012-009-16:39:36.553 254.8 62.1
A61928 84465 HBK  RF END  2012-009-16:45:34.553 336.4  6.0
A61928 84465 HBK  LOS    2012-009-16:45:47.353 336.7  5.0
;
;
;
;###END_OF_FILE

```

**Appendix E: R2 – import file (LTM) sample**

Radarsat-II Long Term Pass Schedule

Schedule Start Time: 2011-343-18:10:50 Schedule EndTime: 2012-009-03:00:00

CID	StationID	Orbit	RF	AOS	LOS	Product Released	RASE Template Applied
7284552	SHUB	20813	679	2011-343-21:13:15	2011-343-21:27:21	SPS_CA_R2_SHUB_20813_2011-343-160414_CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284552_20113432114.XSCH	
7284591	SHUB	20814	728	2011-343-22:52:15	2011-343-23:07:04	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284591_20113432253.XSCH	
7284630	SASK	20815	755	2011-344-00:34:55	2011-344-00:50:05	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284630_20113440036.XSCH	
7284665	SASK	20816	474	2011-344-02:17:10	2011-344-02:28:56	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7284665_20113440219.XSCH	
7284743	SHUB	20820	304	2011-344-09:24:28	2011-344-09:34:37	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7284743_20113440927.XSCH	
7284769	SHUB	20821	751	2011-344-11:02:32	2011-344-11:17:39	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284769_20113441103.XSCH	
7284813	SASK	20822	697	2011-344-12:41:59	2011-344-12:56:25	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284813_20113441243.XSCH	
7284843	SASK	20823	735	2011-344-14:21:31	2011-344-14:36:23	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7284843_20113441422.XSCH	
7284878	SASK	20824	462	2011-344-16:01:39	2011-344-16:13:04	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7284878_20113441603.XSCH	
7284926	SHUB	20827	584	2011-344-20:45:09	2011-344-20:58:01	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284926_20113442046.XSCH	
7284961	SHUB	20828	757	2011-344-22:22:57	2011-344-22:38:07	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284961_20113442224.XSCH	
7285009	SASK	20829	756	2011-345-00:05:52	2011-345-00:21:01	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7285009_20113450007.XSCH	
7285039	SASK	20830	620	2011-345-01:46:50	2011-345-02:00:18	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7285039_20113450148.XSCH	
7285139	SHUB	20835	710	2011-345-10:33:37	2011-345-10:48:12	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7285139_20113451035.XSCH	
7285174	SHUB	20836	702	2011-345-12:13:13	2011-345-12:27:38	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7285174_20113451214.XSCH	
7285204	SASK	20837	757	2011-345-13:52:25	2011-345-14:07:35	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7285204_20113451353.XSCH	
7285239	SASK	20838	579	2011-345-15:32:23	2011-345-15:45:11	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7285239_20113451533.XSCH	
7285287	SHUB	20841	433	2011-345-20:17:27	2011-345-20:28:33	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7285287_20113452019.XSCH	
7285322	SHUB	20842	749	2011-345-21:54:00	2011-345-22:09:03	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7285322_20113452155.XSCH	

The same (upper) TLM sample file shown in landscape mode.

Radarsat-II Long Term Pass Schedule

Schedule Start Time: 2011-343-18:10:50 Schedule EndTime: 2012-009-03:00:00

CID	StationID	Orbit	RF	AOS	LOS	Product Released	RASE Template Applied
7284552	SHUB	20813	679	2011-343-21:13:15	2011-343-21:27:21	SPS_CA_R2_SHUB_20813_2011-343-160414_CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284552_20113432114.XSCH	
7284591	SHUB	20814	728	2011-343-22:52:15	2011-343-23:07:04	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284591_20113432253.XSCH	
7284630	SASK	20815	755	2011-344-00:34:55	2011-344-00:50:05	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284630_20113440036.XSCH	
7284665	SASK	20816	474	2011-344-02:17:10	2011-344-02:28:56	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7284665_20113440219.XSCH	
7284743	SHUB	20820	304	2011-344-09:24:28	2011-344-09:34:37	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7284743_20113440927.XSCH	
7284769	SHUB	20821	751	2011-344-11:02:32	2011-344-11:17:39	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284769_20113441103.XSCH	
7284813	SASK	20822	697	2011-344-12:41:59	2011-344-12:56:25	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284813_20113441243.XSCH	
7284843	SASK	20823	735	2011-344-14:21:31	2011-344-14:36:23	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7284843_20113441422.XSCH	
7284878	SASK	20824	462	2011-344-16:01:39	2011-344-16:13:04	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7284878_20113441603.XSCH	
7284926	SHUB	20827	584	2011-344-20:45:09	2011-344-20:58:01	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284926_20113442046.XSCH	
7284961	SHUB	20828	757	2011-344-22:22:57	2011-344-22:38:07	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7284961_20113442224.XSCH	
7285009	SASK	20829	756	2011-345-00:05:52	2011-345-00:21:01	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7285009_20113450007.XSCH	
7285039	SASK	20830	620	2011-345-01:46:50	2011-345-02:00:18	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7285039_20113450148.XSCH	
7285139	SHUB	20835	710	2011-345-10:33:37	2011-345-10:48:12	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7285139_20113451035.XSCH	
7285174	SHUB	20836	702	2011-345-12:13:13	2011-345-12:27:38	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7285174_20113451214.XSCH	
7285204	SASK	20837	757	2011-345-13:52:25	2011-345-14:07:35	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7285204_20113451353.XSCH	
7285239	SASK	20838	579	2011-345-15:32:23	2011-345-15:45:11	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7285239_20113451533.XSCH	
7285287	SHUB	20841	433	2011-345-20:17:27	2011-345-20:28:33	CA_SPS_RT-NOM-TTCS-PRIME-MonitorOnly-1_7285287_20113452019.XSCH	
7285322	SHUB	20842	749	2011-345-21:54:00	2011-345-22:09:03	CA_SPS_RT-NOM-TTCS-PRIME-Uplink-1_7285322_20113452155.XSCH	