

# Naming Conventions for EM Product Directories

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## 1 Introduction

EM Product Directories were introduced to bundle a product, as generated by the Indian Data Processing System (DPS), and additional files and directories, e.g. product quick looks, Ortho Kits, and TIFF Kits, generated by Euromap.

Table 1 indicates the use of the different versions of the EM Product Directories. Version 0 and 1 are not described in this document, as they were not used for products actually delivered to clients.

Version	Supporting	In Use
4	IRS-1C/1D/P6/P5	Until present.
3	IRS-1C/1D/P6	For IRS-P6 only, until 10-Nov-2008.
2	IRS-1C/1D	For IRS-1C/1D only, until 10-Nov-2008.

**Table 1: Use of different versions of the EM Product Directories**

From 11 November 2008 onwards, version 4 is used for all data products.

The EM Product Directories facilitate the handling of products in case of orders consisting of several products ordered with the same processing options. The naming conventions are not unambiguous when the same scene is ordered with different processing options, e.g. map projection, ellipsoid, or resampling kernel.

Further, these conventions also serve for base names for other file and directory names.

## 2 Common Definitions

Place Holder	Definition	Description
<Digit>	'0'   '1'   ...   '9'	The digits 0, 1, ..., 9.
<UCLetter>	'A'   'B'   ...   'Z'	The upper case letters A, B, ..., Z.
<LCLetter>	'a'   'b'   ...   'z'	The lower case letters a, b, ..., z.
<AlphaNum>	<Digit>   <UCLetter>   <LCLetter>	An alphanumerical character, either in upper or lower case.

**Table 2: Basic definitions**

Place Holder	Definition	Description
<YYYY>	4 * <Digit>	A year in long format, e.g. 2006.
<YY>	2 * <Digit>	A year in short format, e.g. 06 for 2006.
<MM>	2 * <Digit>	A month.
<DD>	2 * <Digit>	A day.
<DateL>	<YYYY><MM><DD>	A date in long format.
<DateS>	<YY><MM><DD>	A date in short format.

**Table 3: Dates**

### 3 Directory Names, Version 4

The convention version 4 was introduced to support the IRS-P5 Cartosat-1 data products that require four digits for path and row. It is defined as

<Date><Mission><Path><Row><Sensor><UU><SAT><Format><Ver>

with the place holders defined in Table 2, Table 3, and Table 4.

Place Holder	Definition	Description
<Date>	<DateS>	Date in short format. See Table 3.
<Mission>	'1C'   '1D'   'P6'   'P5'	1C IRS-1C 1D IRS-1D P6 IRS-P6 Resourcesat-1 P5 IRS-P5 Cartosat-1
<Path>	4 * <Digit>	A path number. (in case of LISS-IV MX: seg(1)str(2))
<Row>	4 * <Digit>	A row number. (in case of LISS-IV MX: scenenr)
<Sensor>	1 * <UCLetter>	L LISS-III P PAN (means 1C/1D PAN as well as P5 PAN-Aft and PAN-Fore) W WiFS A AWiFS M LISS-IV Mono mode X LISS-IV Multispectral mode
<UU>	See Table 5	See Table 5
<SAT>	2 * <Digit>	Shift along track of a scene in percent.
<Format>	'F'   'S'   'G'   'O'	Format of the DPS-generated product F Fast Format S Super Structure G GeoTIFF O OrthoKit
<Ver>	'4'	Version 4 directory naming convention.

**Table 4: Version 4 definitions**

In Case of		Place Holder <UU>	
<Sensor>	<Mission>	Definition	Description
L	1C, 1D, P6	2 * <Digit>	00 Indicates full scenes 01, ..., 12 Quadrant number
P	1C, 1D	('A' 'B' 'C' 'D') (<Digit> 'L' 'M' 'R')	A...D Scene 0 Indicates full scene 1...9 Subscenes L, M, R Strips e.g.: A0 Full scene A B8 Subscene 8 out of scene B DM Middle strip of scene D
	P5	'A_' 'F_' 'AF'	A_ PAN-Aft camera data F_ PAN-Fore camera data AF Stereoscopic data set including PAN-Aft and PAN-Fore data
W	1C, 1D	2 * '_'	Not used.
A	P6	('A' 'B' 'C' 'D')'_'	A_ Quarter A B_ Quarter B C_ Quarter C D_ Quarter D
M	P6	('A' 'B' 'C' 'D')'_'	A_ Scene A B_ Scene B C_ Scene C D_ Scene D
X	P6	2 * '_'	Not used.

**Table 5: Field <UU> in case of version 4**

## 4 Directory Names, Version 3

The convention version 3 was introduced to support the IRS-P6 Resourcesat-1 data products, but is otherwise identical to version 2. It is defined as

<Date><Mission><Path><Row><Sensor><UU><SAT><Format><Ver>

with the place holders defined in Table 2, Table 3, and Table 6.

Place Holder	Definition	Description
<Date>	<DateS>	Date in short format. See Table 3.
<Mission>	'1C'   '1D'   'P6'	1C IRS-1C 1D IRS-1D P6 IRS-P6 Resourcesat-1
<Path>	3 * <Digit>	A path number. (in case of LISS-IV MX: seg(1)str(2))
<Row>	3 * <Digit>	A row number. (in case of LISS-IV MX: scenenr)
<Sensor>	1 * <UCLetter>	L LISS-III P PAN W WiFS A AWiFS M LISS-IV Mono mode X LISS-IV Multispectral mode
<UU>	See Table 5	See Table 5
<SAT>	2 * <Digit>	Shift along track of a scene in percent.
<Format>	'F'   'S'	Format of the DPS-generated product F Fast Format S Super Structure
<Ver>	'3'	Version 3 directory naming convention.

**Table 6: Version 3 definitions**

In Case of		Place Holder <UU>	
<Sensor>	<Mission>	Definition	Description
L	1C, 1D, P6	2 * <Digit>	00 Indicates full scenes 01, ..., 12 Quadrant number
P	1C, 1D	('A'   'B'   'C'   'D') (<Digit>   'L'   'M'   'R')	A...D Scene 0 Indicates full scene 1...9 Subscenes L, M, R Strips e.g.: A0 Full scene A B8 Subscene 8 out of scene B DM Middle strip of scene D
W	1C, 1D	2 * '_'	Not used.
A	P6	('A'   'B'   'C'   'D') '_'	A_ Quarter A B_ Quarter B C_ Quarter C D_ Quarter D
M	P6	('A'   'B'   'C'   'D') '_'	A_ Scene A B_ Scene B C_ Scene C D_ Scene D
X	P6	2 * '_'	Not used.

**Table 7: Field <UU> in case of version 3**

## 5 Directory Names, Version 2

The convention version 2 was the first directory naming convention actually used for IRS-1D and IRS-1C products delivered to clients. It is defined as

<Date><Mission><Path><Row><Sensor><UU><SAT><Format><Ver>

with the place holders defined in Table 2, Table 3, and Table 6.

Place Holder	Definition	Description
<Date>	<DateS>	Date in short format. See Table 3.
<Mission>	'1C'   '1D'	1C      IRS-1C 1D      IRS-1D
<Path>	3 * <Digit>	A path number.
<Row>	3 * <Digit>	A row number.
<Sensor>	1 * <UCLetter>	L      LISS-III P      PAN W      WiFS
<UU>	See Table 5	See Table 5
<SAT>	2 * <Digit>	Shift along track of a scene in percent.
<Format>	'F'   'S'	Format of the DPS-generated product F      Fast Format S      Super Structure
<Ver>	'2'	Version 2 directory naming convention.

**Table 8: Version 2 definitions**

In Case of		Place Holder <UU>	
<Sensor>	<Mission>	Definition	Description
L	1C, 1D	2 * <Digit>	00      Indicates full scenes 01, ..., 12      Quadrant number
P	1C, 1D	('A'   'B'   'C'   'D') (<Digit>   'L'   'M'   'R')	A...D      Scene 0      Indicates full scene 1...9      Subscenes L, M, R      Strips e.g.: A0      Full scene A B8      Subscene 8 out of scene B DM      Middle strip of scene D
W	1C, 1D	2 * '_'	Not used.

**Table 9: <UU> in case of version 2**