PURPOSE

Radio restarts lack necessary observability to correctly identify the issues, therefore information is going missing in the reports used by SDMs/PLM to help classify issues to design. The goal is to have PDU enhance the product to have the necessary visibility and this is considered a ‘bridge-gap’ to assist until the PDU work is complete.

NEED

A command in moshell to customized the llog information in a way that the report generation software can easily utilize in data collection and report generation. It is not for all llog entries but just those outlined below in the TRIGGER section

TRIGGER

on entry in llog. Entry has following faultid values in Extra field,

0x998

0xf06e (or G2 DU product)

Example:

G1=>

No: 5

Reason: Ordered restart

Time: 2019-10-24 09:07:48

Program: ngr2.elf

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: Application ordered restart, faultId: 0x998 (LogicalNameUndefined), faultDescription: Performing internal restart

G2=>

No: 301

Reason: Ordered restart

Time: 2019-10-23 08:51:33

Program: ngr2.elf

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: Application ordered restart, faultId: 0xf06e (Restart), faultDescription: Application ordered restart

ACTION

1. Trigger AND previous llog entry does has a valid timestamp and within 2 minutes

Example: 037188\_WARM\_SPRINGS BXP\_2057

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No: **300**

Reason: Ordered restart

Time: 2019-10-23 08:50:40

Program: **lh\_supd**

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: **Restart ordered due to Link timeout**

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No: **301**

Reason: Ordered restart

Time: **2019-10-23 08:51:33**

Program: ngr2.elf

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: Application ordered restart, **faultId: 0xf06e** (Restart), faultDescription: Application ordered restart

Result:

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No: **300**,**301**

Reason: Ordered restart

Time: **2019-10-23 08:51:33**

Program: **lh\_supd**

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: **faultId: 0xf06e** - **Restart ordered due to Link timeout**

1. Trigger AND previous llog entry does not have a valid timestamp

Example: 037188\_WARM\_SPRINGS BXP\_2057

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No: **292**

Reason: Ordered restart

Time: 2000-01-01 01:00:04

Program: **ngr2.elf**

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: **Internal restart board signal: RADIO\_RECOVERY\_TIMEOUT, Restart reason: Board is restarted due to recovery timeout**

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No: **293**

Reason: Ordered restart

Time: **2018-09-05 06:48:38**

Program: ngr2.elf

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: Application ordered restart, **faultId: 0xf06e** (LogicalNameUndefined), faultDescription: Application ordered restart

Result:

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No: **292**,**293**

Reason: Ordered restart

Time: **2018-09-05 06:48:38**

Program: **ngr2.elf**

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: **faultId: 0xf06e - Internal restart board signal: RADIO\_RECOVERY\_TIMEOUT, Restart reason: Board is restarted due to recovery timeout**

1. Trigger AND previous llog entry with a Program Crash

Example: 037443\_GAWNE BXP\_2059

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No: **66**

Reason: Program Crash

Time: **2019-10-23 17:32:36**

Program: **ngr2.elf**

Pid: **782**

Rank: -

Signal: 11

PMD: **/var/log/pmd/pmd-PimDataService-782-20191023-173054.tgz**

Extra: **CXP9013268%15\_R78LC**

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No: **67**

Reason: Program Crash

Time: 2019-10-23 17:32:36

Program: -

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: -

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No: **68**

Reason: Ordered restart

Time: 2019-10-23 17:33:33

Program: ngr2.elf

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: Application ordered restart, **faultId: 0xf06e** (Restart), faultDescription: Application ordered restart

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Result:

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No: **66**,**67**,**68**

Reason: Ordered restart

Time: **2019-10-23 17:32:36**

Program: **ngr2.elf**

Pid: **782**

Rank: Cold

Signal: -

PMD: **/var/log/pmd/pmd-PimDataService-782-20191023-173054.tgz**

Extra: **faultId: 0xf06e** - **CXP9013268%15\_R78LC**

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1. Trigger AND previous llog entry with timestamp outside acceptable limit

Example:

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No: 60

Reason: Ordered restart

Time: 2019-09-23 02:11:05

Program: ngr2.elf

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: Application ordered restart, faultId: 0xf06e (Restart), faultDescription: Application ordered restart

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No: 61

Reason: Ordered restart

Time: 2019-09-23 23:13:18

Program: ngr2.elf

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: Application ordered restart, faultId: 0xf06e (Restart), faultDescription: Application ordered restart

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Result: (no change)

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No: 60

Reason: Ordered restart

Time: 2019-09-23 02:11:05

Program: ngr2.elf

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: Application ordered restart, faultId: 0xf06e (Restart), faultDescription: Application ordered restart

---------------------------------------------------

No: 61

Reason: Ordered restart

Time: 2019-09-23 23:13:18

Program: ngr2.elf

Pid: -

Rank: Cold

Signal: -

PMD: -

Extra: Application ordered restart, faultId: 0xf06e (Restart), faultDescription: Application ordered restart

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