

FCS Checklist for DNX Customers

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Affected Products: StrataDNX

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Related Articles:

Attachments: [cint_debug_dumps.c](#) [DNX_FCS.pdf](#)

This article provides a checklist for First Customer Shipment (FCS).

Overview

Before FCS customers are required to complete the attached checklist.

Checklist Requirements

Verify that the following requirements are met:

- A sustainable SDK version is used
- The AE team checked the register dumps for misconfigurations
- The AE team verified the SOC files
- SER protection is implemented
- WarmBoot has been validated (if applicable)
- Debug terminal is available and working
- Interrupt handling is implemented
- There is a procedure describing the course of action in case of device failure (see [Collecting Information after a Device Failure](#))
- The external errata sheet has been reviewed

Tools for Collecting Information

Use the following tools to collect information during [normal operation](#) and [device failure](#):

- **Interrupt log and counters** - used to understand the starting point of a failure
- **Register dump** - provides a snapshot of the system status and configuration after a failure, see [Debug Dumps Cint](#)
- **Diag shell commands** - SDK shell commands that collect information required for understanding complex problems, see [First Customer Shipment Checklist](#)
- **API logging** - using the BSL logging layer
- **Knowledge Management (KM)** - The KM tool contains articles describing debugging procedures

Debug Dumps Cint

The debug dump cint is designed for FE/FAP devices. **Table 1: Debug Dump Cint** lists the features that the cint supports.

To run the Debug Dumps Cint:

1. Download the cint **cint_debug_dumps.c** attached to this article.
2. On your system, run the appropriate command according to the list in **Table 1: Debug Dump Cint**.

Debug Dump Cint

FAP/AE	Command	Function
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FAP/AE	Command	Function
FAP	fap_diag_pp_dump(unit)	Dumps the following: <ul style="list-style-type: none"> All the “diag pp ...” functionalities The register dumps
	fap_diag_pp_dump_full(unit)	Dumps the following: <ul style="list-style-type: none"> fap_diag_pp_dump() The L2 table
	fap_diag_tm_dump(unit)	Dumps the following: <ul style="list-style-type: none"> Queue states Registers Fabric reachability Connectivity Requirements: <ul style="list-style-type: none"> Setting the diag_fabric_reachability_mod_id variable (set to 0 by default) Setting the diag_cosq_is_voq_or_sysport and diag_cosq for the diag cosq print_flow_and_up is_voq_conn default)
	fap_diag_tm_dump_full(unit)	Dumps the following: <ul style="list-style-type: none"> fap_diag_tm_dump() All the important TM related tables (~150MB) Requirements: Setting the fap_diag_tm_dump() variables
FE	fe_diag_tm_dump(unit)	Dumps the following: <ul style="list-style-type: none"> Fabric reachability Fabric connectivity Requirements: Setting the diag_fabric_reachability_mod_id variable for default)
	fe_diag_tm_dump_full(unit)	Calls for the following: <ul style="list-style-type: none"> fe_diag_tm_dump() RTP tables dump

First Customer Shipment Checklist

The **First Customer Shipment Checklist PDF** provides a list of commands for running DNX diagnostics.

To use the First Customer Shipment Checklist PDF:

1. Download the **DNX_FCS** PDF.
2. Review the list of commands.
3. On your system, execute the relevant commands.

Note: The First Customer Shipment Checklist also provides a string of commands for a quick execution of multiple commands.

Collecting Information during Normal Operation

Capture the system status on a daily basis, this includes:

- **Interrupt log file and counters** - interrupt handler output and counters from the device used by the customer
- **Diag shell commands** - see attached document
- **Register and table dump** - see attached document

Collecting Information after a Device Failure

After a device failure, collect the following information:

- **Two consecutive register dumps (g * debug)** - illustrates changes in counters
- **Diag shell commands** - see attached document
- **Table dump** - see attached document

