



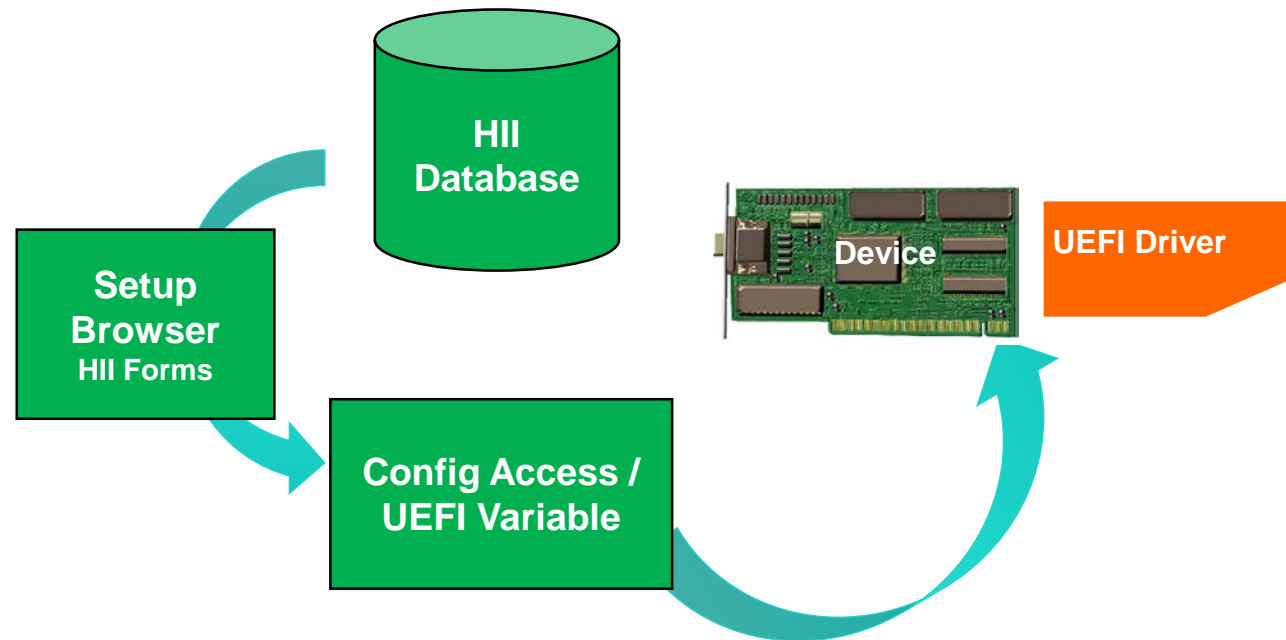
**Hewlett Packard**  
Enterprise

# **EDK2 Redfish POC Code Re-architecture**

# The Goal of EDK2 Redfish POC Code

Align firmware configuration model with remote management infrastructure, the Redfish Service

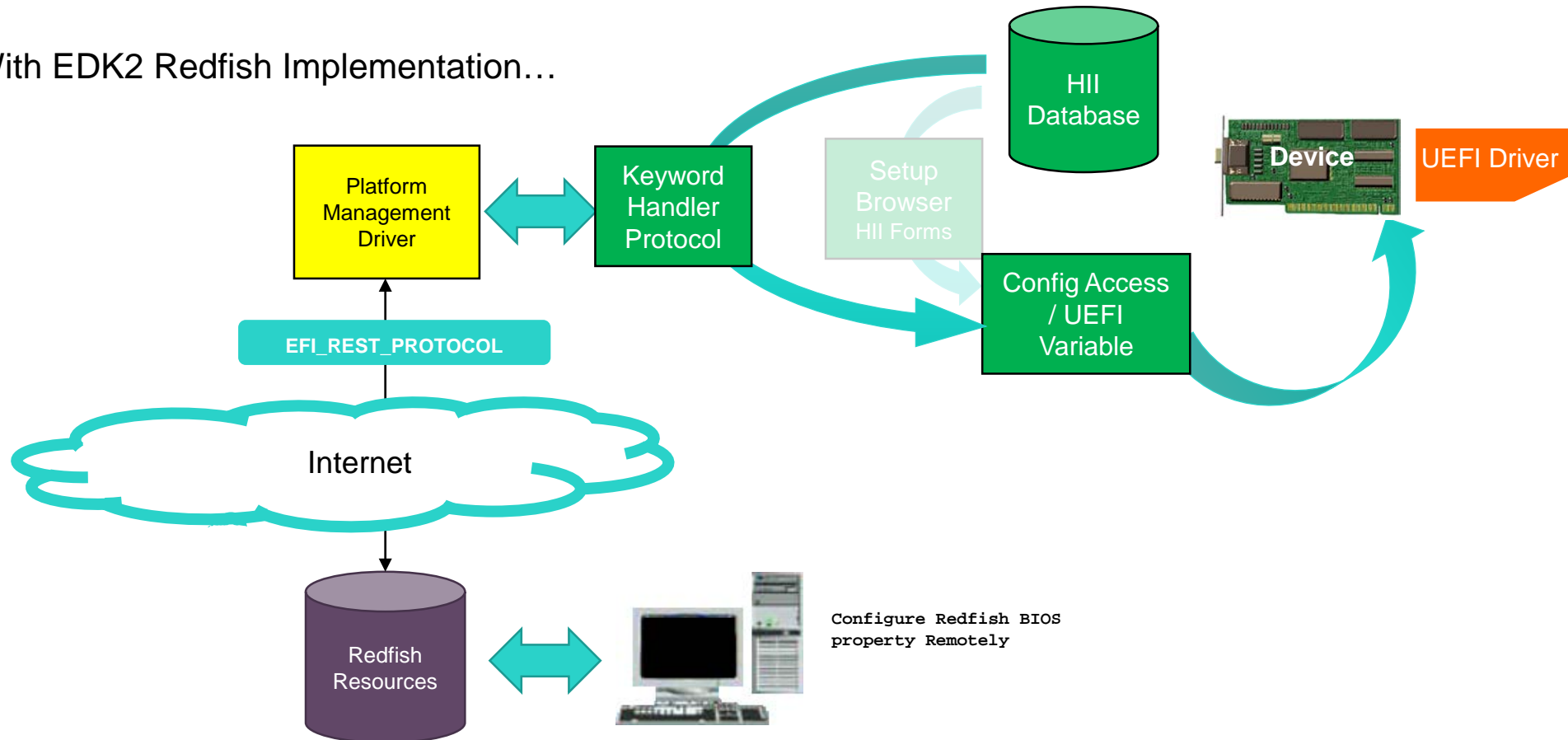
Before EDK2 Redfish Implementation...



# The Goal of EDK2 Redfish POC Code

Align firmware configuration model with remote management infrastructure, the Redfish Service

With EDK2 Redfish Implementation...



# The Goal of EDK2 Redfish POC Code

Standardize HII configuration string using x-UEFI keyword HII language pack to increase interoperability among systems

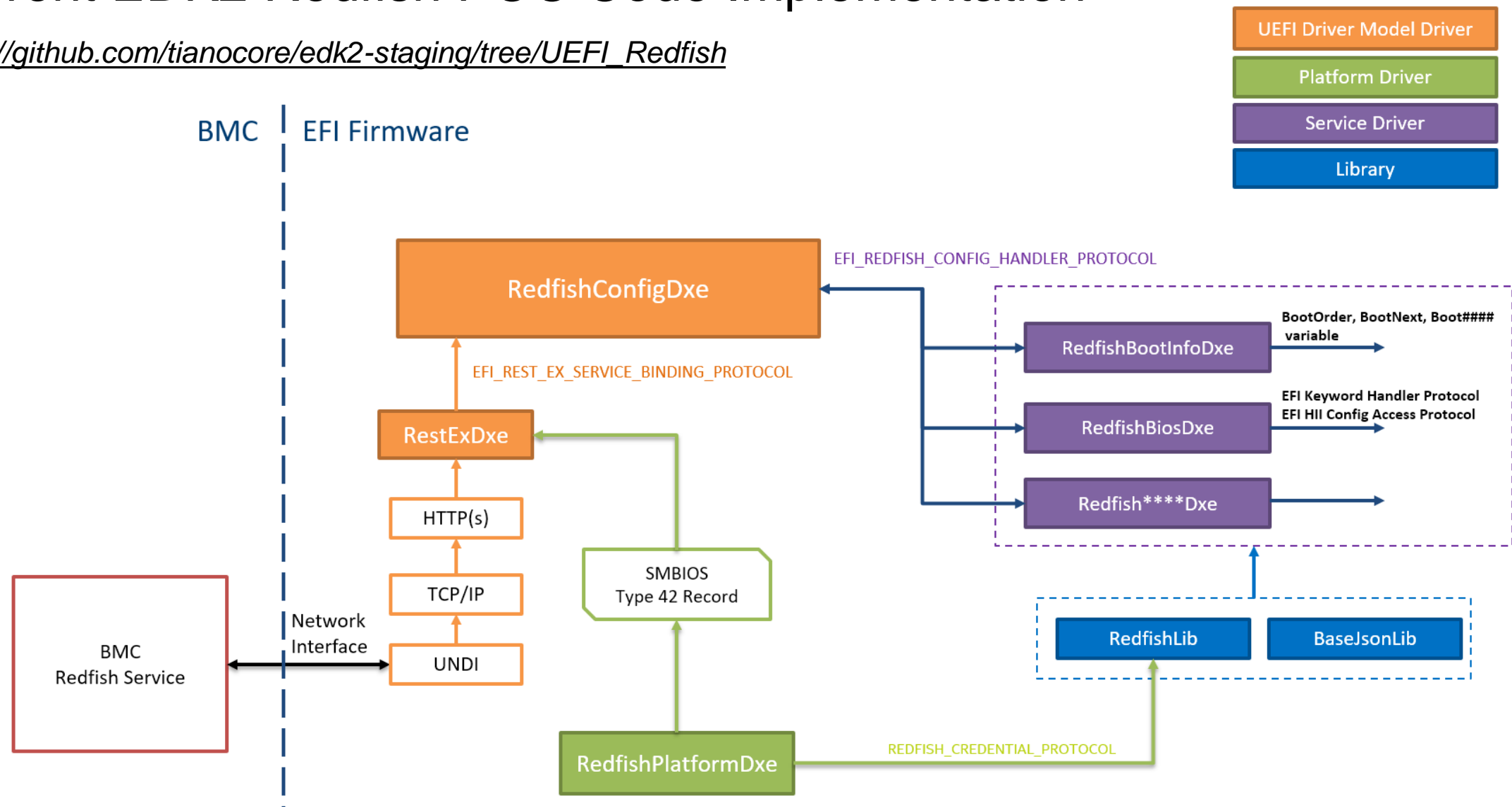
String Pack Language	ENG
Token #1	"iSCSI Initiator Name"
String Pack Language	SPA
Token #1	"....."
String Pack Language	x-UEFI
Token #1	"iSCSIInitiatorName"
.	
.	
String Pack Language	NULL

```
{
  "AttributeName": "xUEFIIns_Dev0006_iSCSIInitiatorName",
  "UefiNamespaceId": "x-UEFI-ns",
  "UefiDevicePath": "VenHw(4B47D616-A8D6-4552-9D44-CCAD2E0F4CF9)",
  "UefiKeywordName": "iSCSIInitiatorName",
  "DisplayName": "iSCSI Initiator Name",
  "HelpText": "Help for iSCSI Initiator Name",
  "ReadOnly": false,
  "ResetRequired": false,
  "MenuPath": "iSCSI_Configuration",
  "Type": "String",
  "MaxLength": 223,
  "MinLength": 4
},
```

<https://uefi.org/confignamespace>

# Current EDK2 Redfish POC Code Implementation

[https://github.com/tianocore/edk2-staging/tree/UEFI\\_Redfish](https://github.com/tianocore/edk2-staging/tree/UEFI_Redfish)



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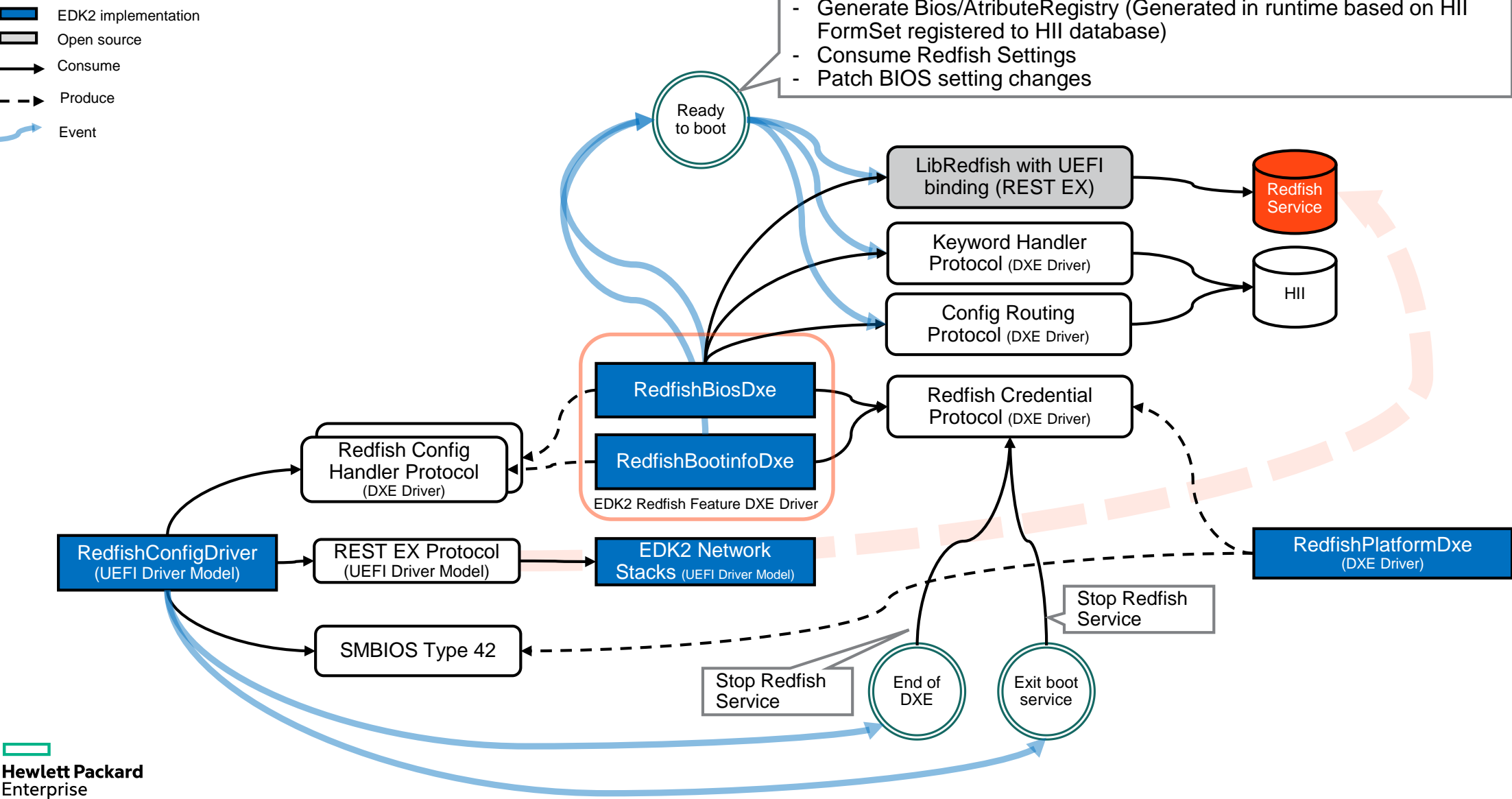
# EDK2 Redfish Feature Drivers

Each EDK2 feature driver responsible to handle specific Redfish resources.

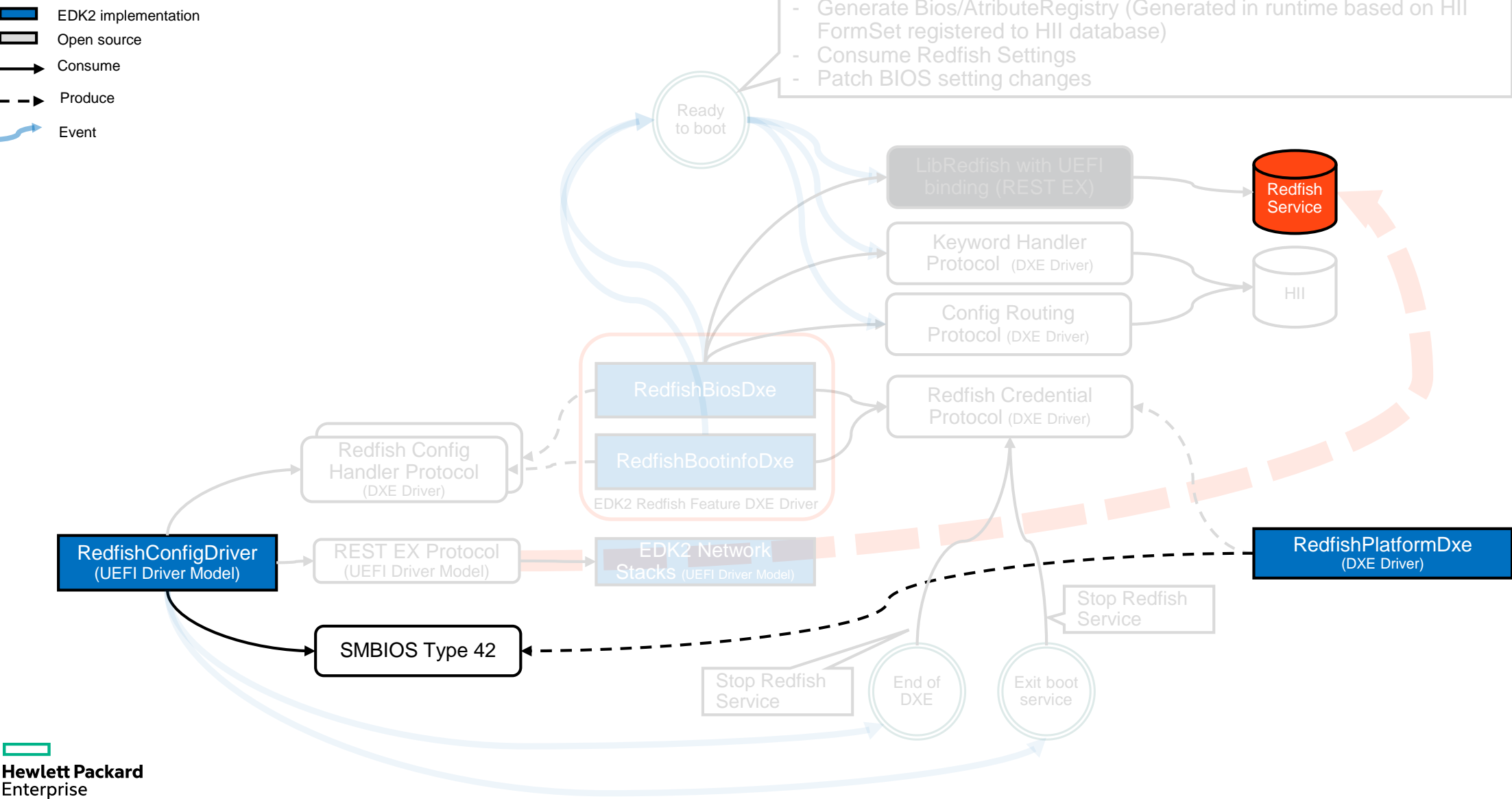
*(We propose to name each edk2 Redfish feature driver according to Redfish schema name)*

- Redfish Boot Info DXE Driver *(Suggest to change the naming to Redfish Computer System DXE Driver)*
  - Manipulates BOOT related properties in ComputerSystem data model
- Redfish BIOS DXE Driver
  - Manipulates BIOS related properties defined in Redfish BIOS data model
  - Manipulates AttributeRegistry properties pointed in BIOS property "AttributeRegistry"
  - Consider HII form set which declared with **EFI\_HII\_REST\_STYLE\_FORMSET\_GUID** as Redfish BIOS resource
  - Consider HII statement with flag **EFI\_IFR\_FLAG\_REST\_STYLE** set as Redfish BIOS resource
  - Use EFI HII Config Route protocol to set HII value if the HII statement doesn't have associated "x-UEFI" language
  - Use EFI Keyword Handler to set HII value if the HII statement has associated "x-UEFI" language

# Current EDK2 Redfish POC Code Implementation

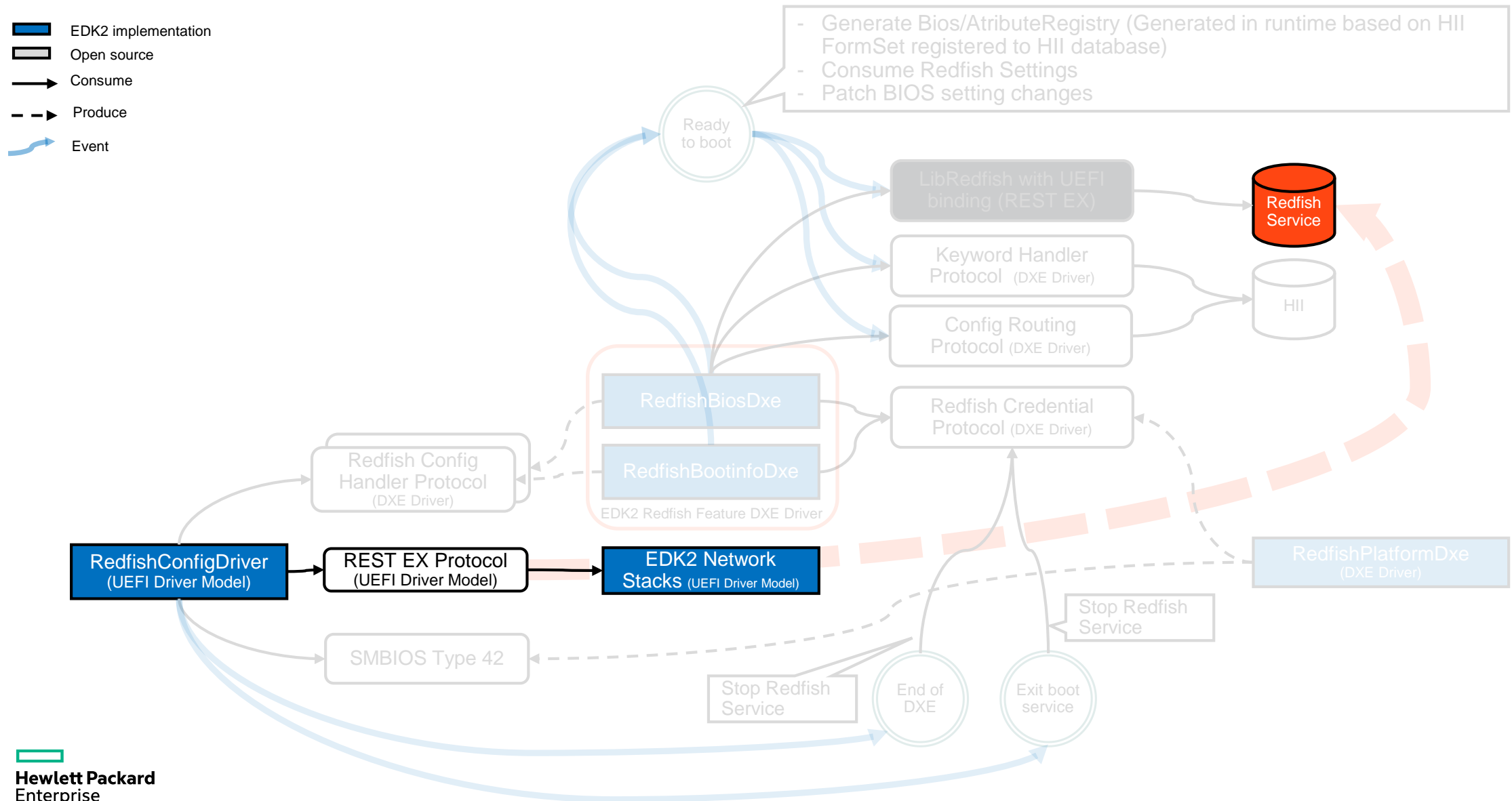


# Current EDK2 Redfish POC Code Implementation

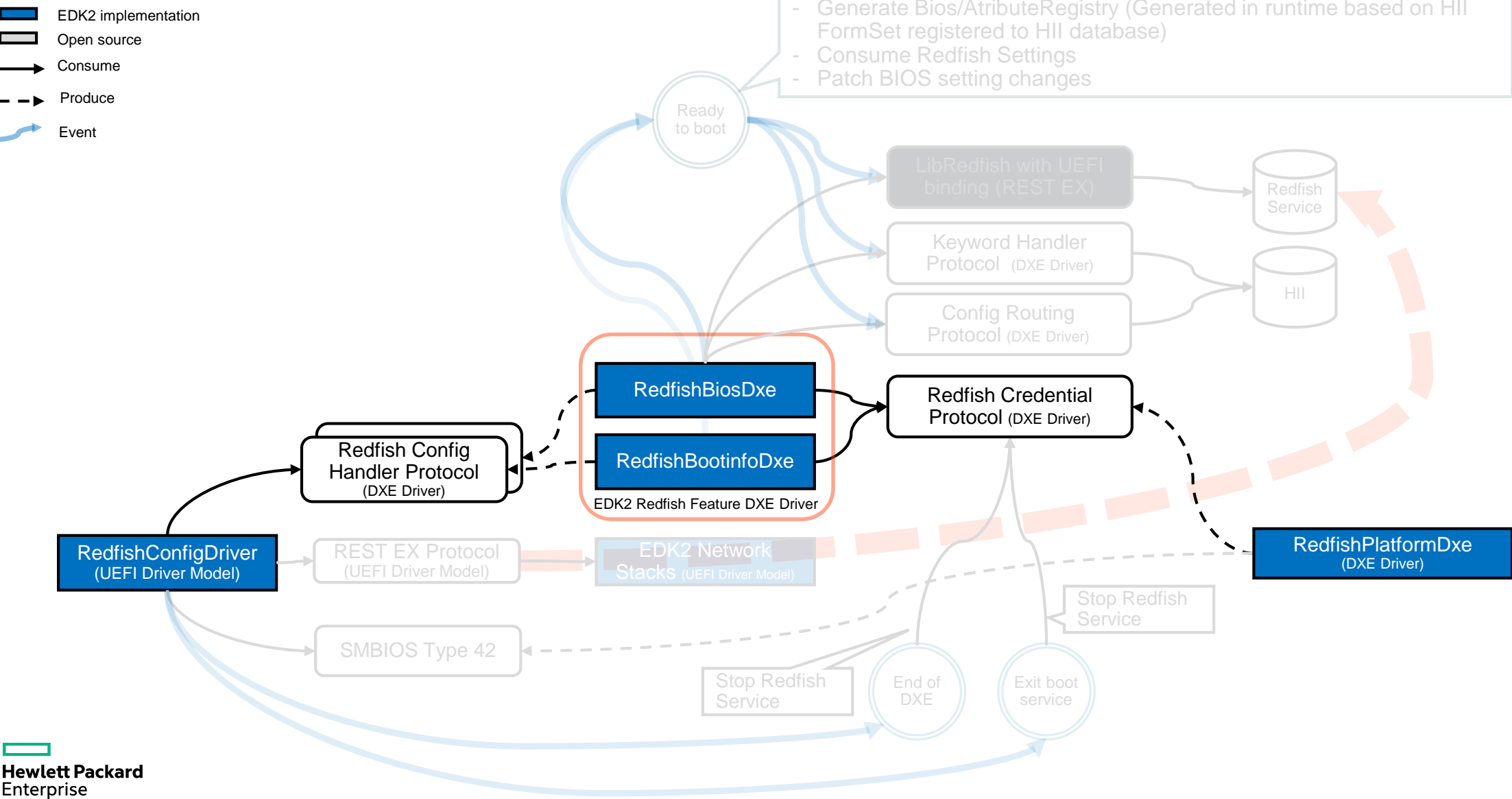




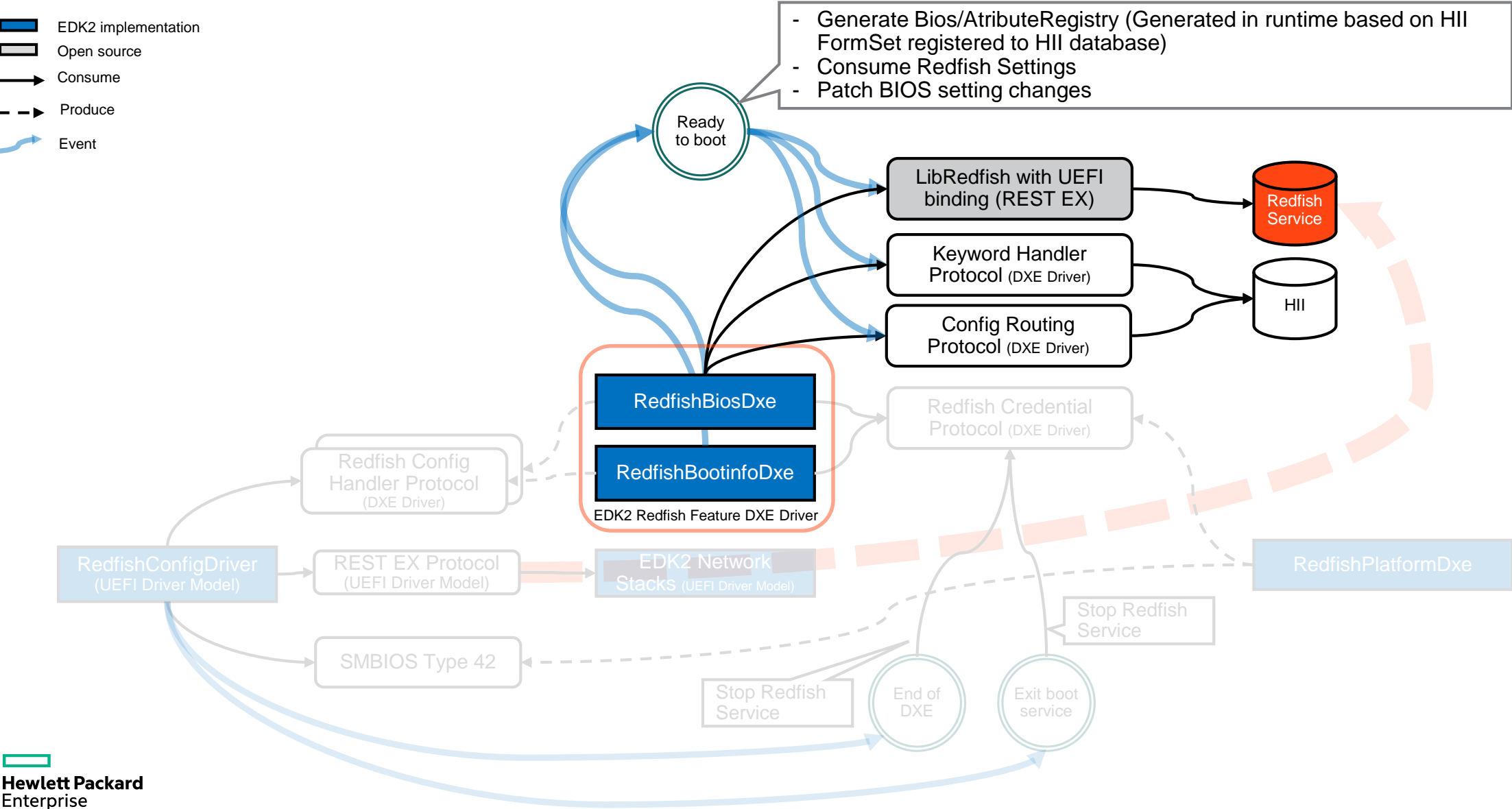
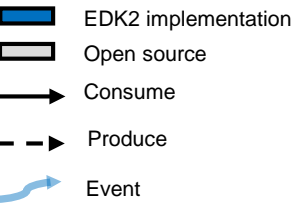
# Current EDK2 Redfish POC Code Implementation



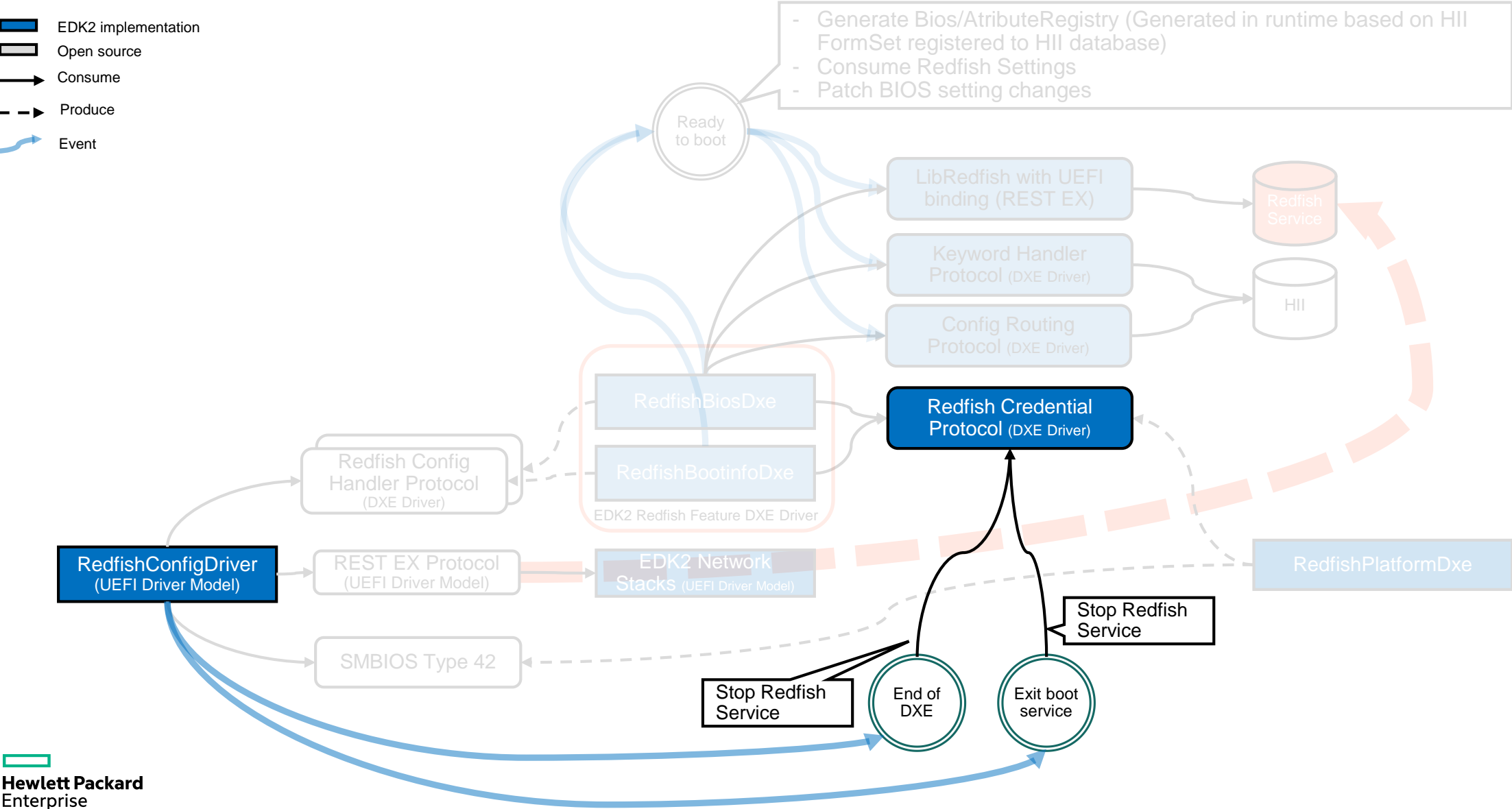
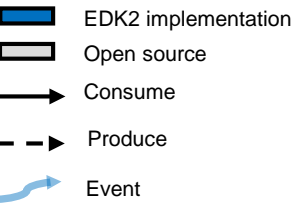
# Current EDK2 Redfish POC Code Implementation

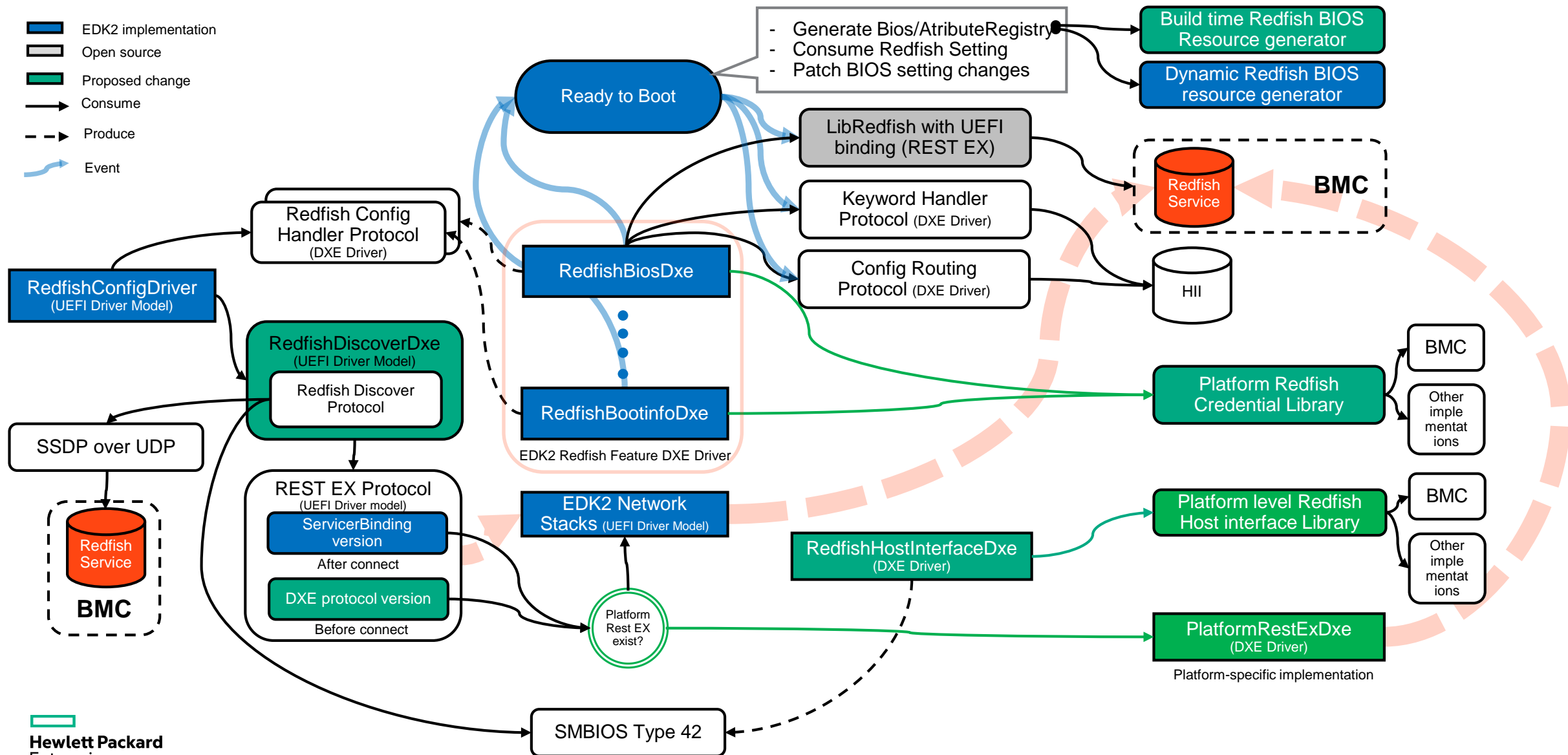


# Current EDK2 Redfish POC Code Implementation

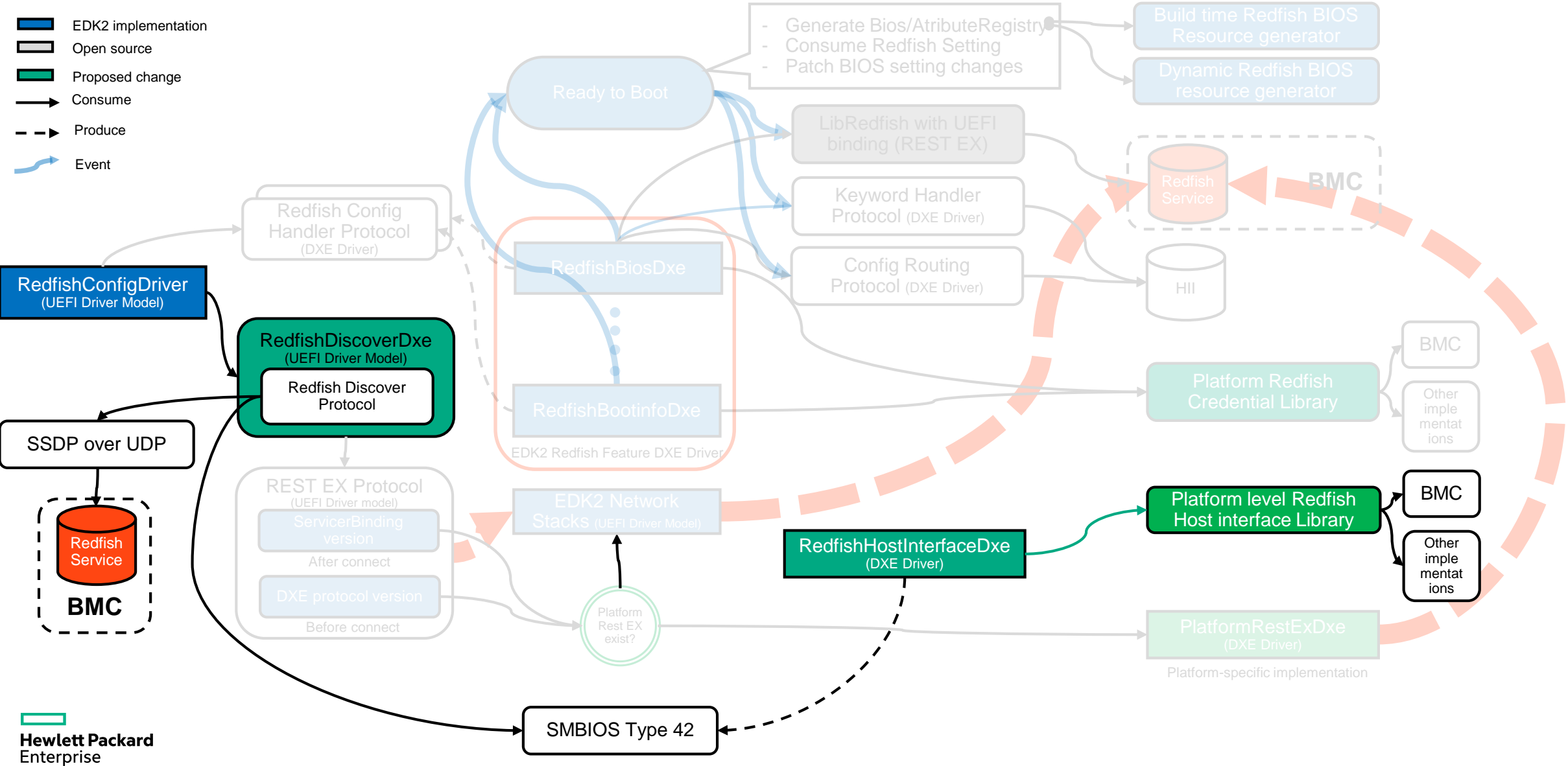


# Current EDK2 Redfish POC Code Implementation

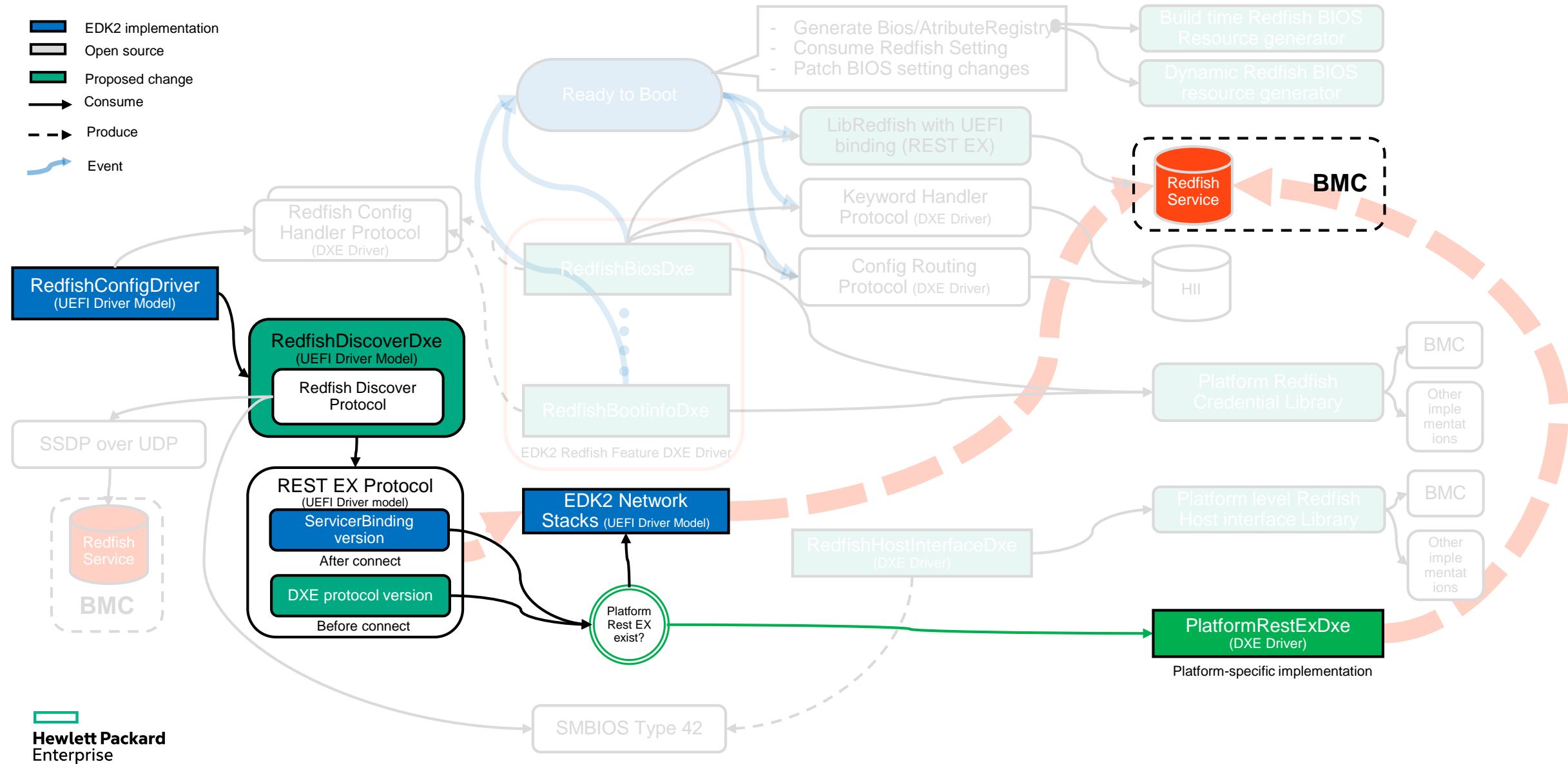




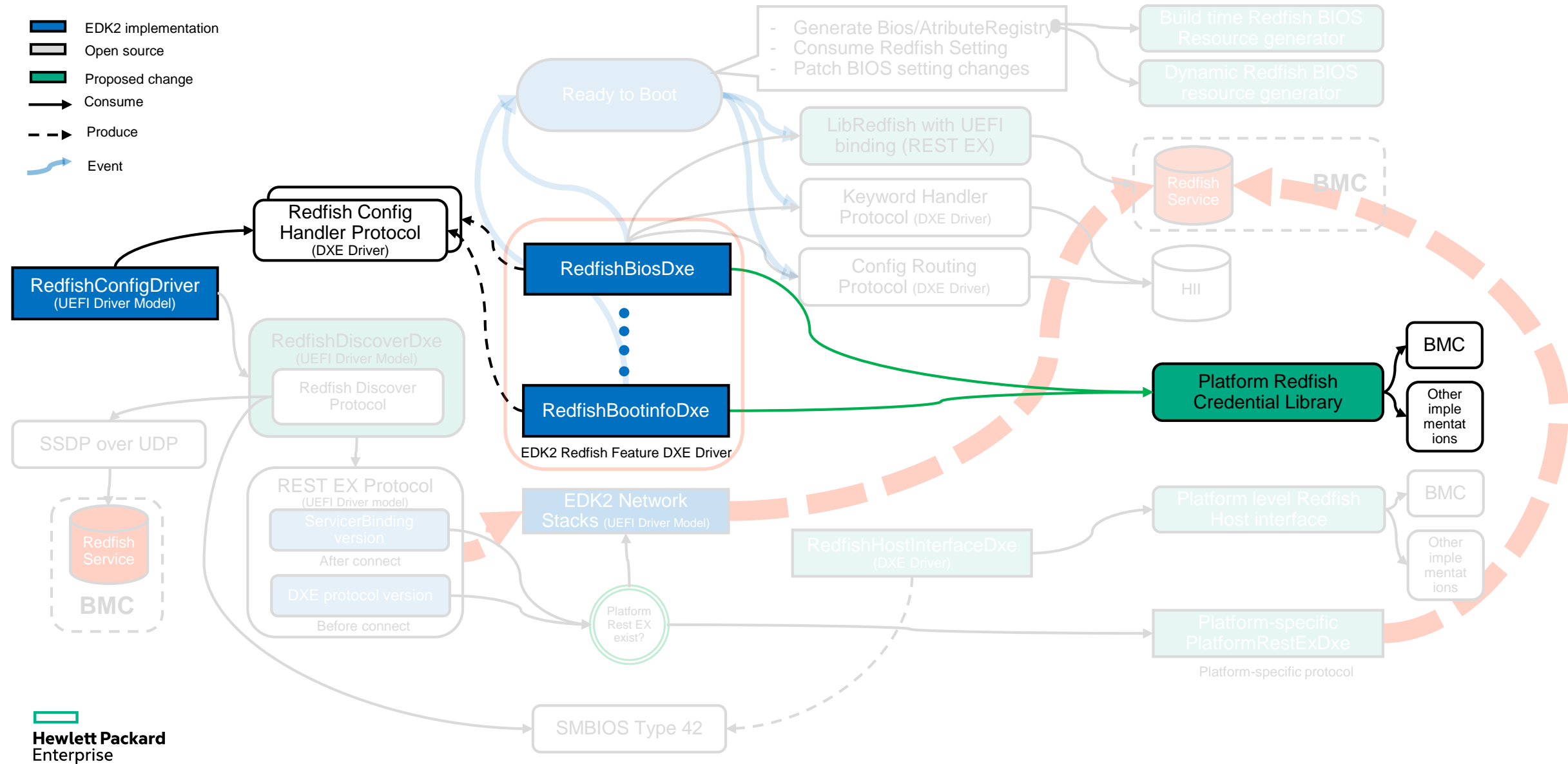
# Re-architecture EDK2 Redfish POC Code Implementation



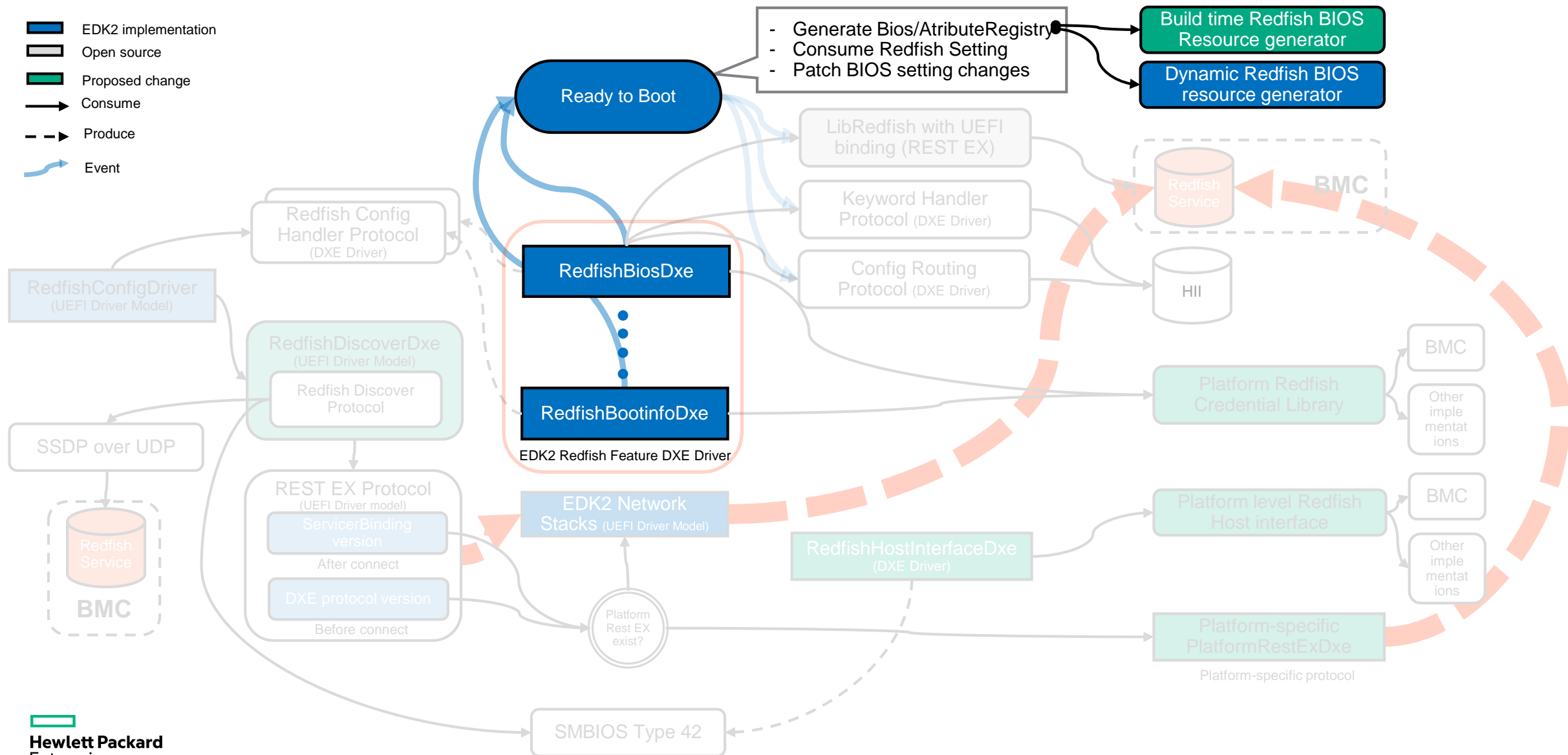
# Re-architecture EDK2 Redfish POC Code Implementation

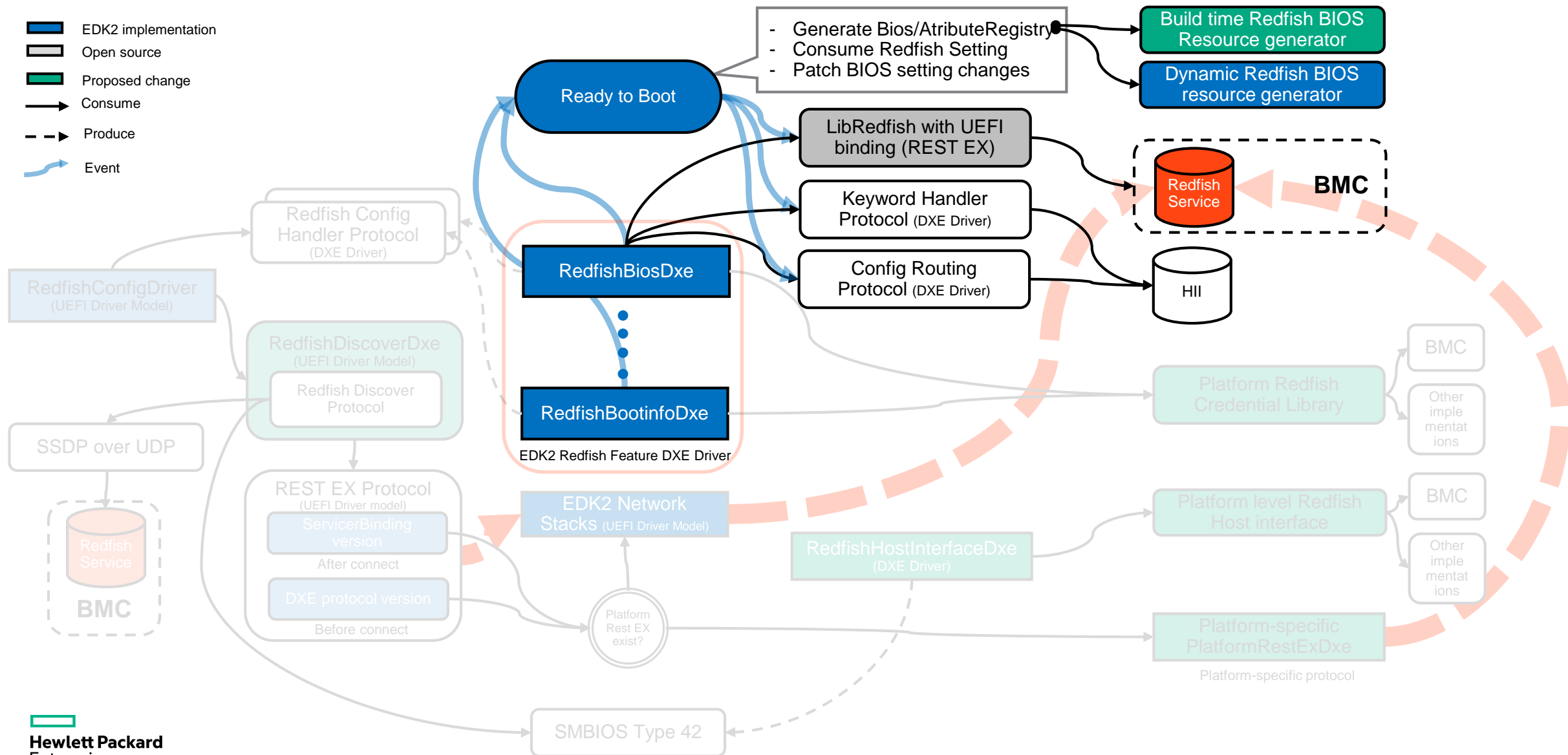


# Re-architecture EDK2 Redfish POC Code Implementation

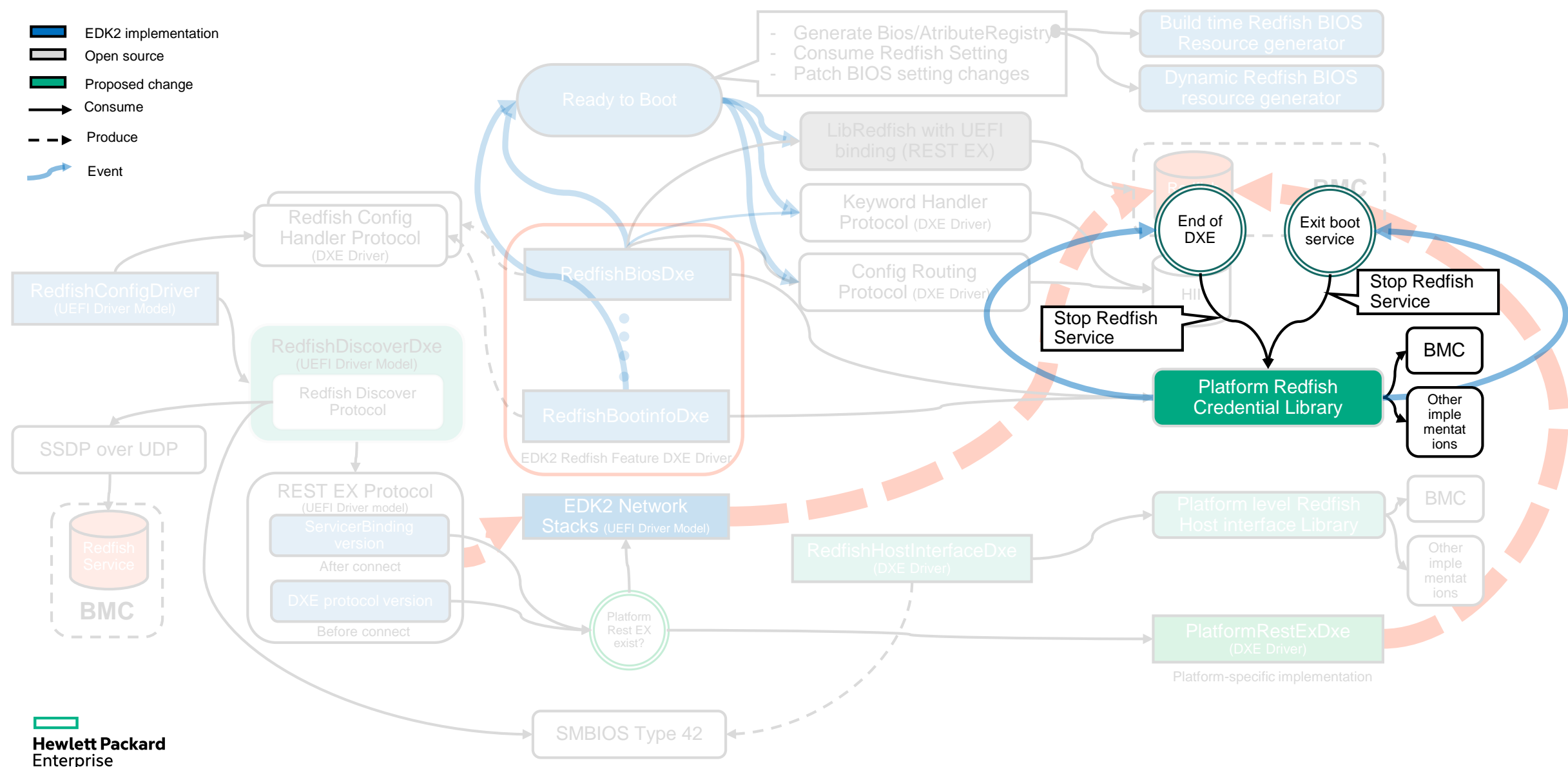








# Re-architecture EDK2 Redfish POC Code Implementation



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# Questions?