IBM System Storage - DS8880 Disk Storage
Microcode Bundle 88.20.112.0 Release Note Information v1

Release Date: December 9, 2016

VRMF Level Data Results:

<table>
<thead>
<tr>
<th>VRMF level From:</th>
<th>New version - no previous releases</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRMF Level To:</td>
<td>88.20.112.0</td>
</tr>
<tr>
<td>Report for:</td>
<td>All DS8880</td>
</tr>
</tbody>
</table>

Code Bundle Contents

<table>
<thead>
<tr>
<th>DS8880 Code Bundle Level</th>
<th>SEA or LMC Version:</th>
<th>DSCLI Version</th>
<th>STAT Tool</th>
<th>Heat Map Transfer Utility</th>
<th>Storage Manager</th>
<th>Copy Services Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>88.20.112.0</td>
<td>7.8.20.280</td>
<td>7.8.20.280</td>
<td>7.8.20.280</td>
<td>7.8.20.280</td>
<td>5.8.20.1119</td>
<td>6.1.4</td>
</tr>
</tbody>
</table>

Overview of new features and functions supported by this release

At a glance:

- Support for new hardware models
  - DS8884 Model 984 with its associated DS8884 Expansion Unit Model 84E
  - DS8886 Model 985 with its associated DS8886 Expansion Unit Model 85E
  - DS8886 Model 986 with its associated DS8886 Expansion Unit Model 86E
- High Performance Flash Enclosure Gen2 support
- Support for 1.6 TB and 3.2 TB Flash Cards
- RAID 6 default for all storage types
- Improved FICON IU pacing
- Thin Provisioning enhancements
- Configurable HMC firewall
- Customer-defined digital certificates for authentication

This new microcode release supports DS8880 systems only.

Select Modifications Included in this Release Note:
This is a list of some modifications contained across one or more LIC (License Internal Code) or microcode release(s). The potential impact is variable. Specific environments may aggravate or degrade the potential impact. Problem(s) fixed and reported in this release note may not be in higher levels of code bundles.

Definition of Problem Severity:

<table>
<thead>
<tr>
<th></th>
<th>High Impact</th>
<th>Moderate</th>
<th>Service</th>
<th>Improvements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Acute: An irrecoverable error with potential loss of data.</td>
<td>Moderate: A function not operational and/or performance might be degraded.</td>
<td>Service: A recoverable error (no impact) and service improvements.</td>
<td>Improvement changes for better Usability and Serviceability.</td>
</tr>
</tbody>
</table>

HIPER: High Impact problem that is Pervasive: 3 or more occurrences
Acute: An irrecoverable error with potential loss of data.
None.

Serious: An irrecoverable error with potential loss of access to data.
None.

Moderate: A system path is not operational and/or performance may be degraded.
None.

Service: A recoverable error, Service improvements.
None.

Improvements: Improvements for better usability
None.
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